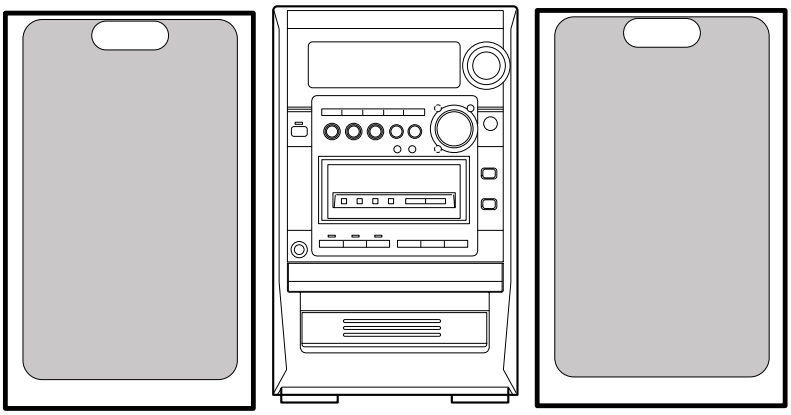
aiwa SERVICE

XR-M700 K



SERVICE MANUAL

COMPACT DISC
STEREO SYSTEM

BASIC TAPE MECHANISM : 2ZM-1 R9NM
BASIC CD MECHANISM : ZZG-4 YB

- This Service Manual does not include " TEST MODE". This item will be issued in the next supplement.
- This Service Manual is the "Revision Publishing" and replaces "Simple Manual" XR-M700 (K), (S/M Code No. 09-003-430-8T1).

aiwa

S/M Code No. 09-006-430-8R1

REVISION DATA

SPECIFICATIONS

<FM tuner section>

Tuning range	87.5 MHz to 108 MHz
Usable sensitivity (IHF)	16.8 dBf
Antenna terminals	75 ohms (unbalanced)

<MW tuner section>

Tuning range	530 kHz to 1710 kHz (10 kHz step) 531 kHz to 1602 kHz (9 kHz step)
Usable sensitivity	350 µV/m
Antenna	Loop antenna

<LW tuner section>

Tuning range	144 kHz to 290 kHz
Usable sensitivity	1400 µV/m
Antenna	Loop antenna

<Amplifier section>

Power output	Rated : 25 W + 25 W (6 ohms, T.H.D. 1 %, 1 kHz / DIN 45500) Reference : 30 W + 30 W (6 ohms, T.H.D. 10 %, 1 kHz / DIN 45324)
Input	AUX/VIDEO IN : 310 mV MD IN : 310 mV
Outputs	CD DIGITAL OUT (OPTICAL) : SUPER WOOFER : 1.2V SPEAKERS: accept speakers of 6 ohms or more PHONES (stereo mini jack): accepts headphones of 32 ohms or more

<Compact disc player section>

Laser	Semiconductor laser (λ = 780 nm)
D-A converter	1 bit dual
Signal-to-noise ratio	85 dB (1 kHz, 0 dB)
Harmonic distortion	0.05 % (1 kHz, 0 dB)
Wow and flutter	Unmeasurable

<Cassette deck section>

Track format	4 tracks, 2 channels stereo
Frequency response	CrO_2 tape : 50 Hz – 16000 Hz Normal tape : 50 Hz – 15000 Hz
Signal-to-noise ratio	45 dB (Dolby B NR ON, CrO_2 tape peak level)
Recording system	AC bias
Heads	Recording / Playback head x 1, erase head x 1

<General>

Power requirements	230 V AC, 50 Hz
Power consumption	90 W
Standby power consumption	1.0 W (power-economizing mode set to ON)
Dimensions of main unit (W x H x D)	180 x 290 x 340 mm
Weight of main unit	6.8 kg

<Speaker system>

Cabinet type	2 way, bass reflex (magnetic shielded type)
Speakers	Woofer : 130 mm Tweeter: 60 mm cone type
Impedance	6 ohms
Output sound pressure level	86 dB/W/m
Dimensions (W x H x D)	164 x 290 x 218mm
Weight	3.0kg

- Design and specifications are subject to change without notice.

- The word "BBE"and the "BBE symbol" are trademarks of BBE Sound, Inc.
  Under license from BBE Sound,Inc.

- Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
  "DOLBY" and the double-D symbol ⧉ are trademarks of Dolby Laboratories Licensing Corporation.

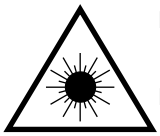
ACCESORIES / PACKAGE LIST

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8A-CL3-905-010		IB,K(E)M
2	87-006-225-010		AM LOOP ANT NC2
3	87-A90-118-010		ANT,WIRE FM (Z)
4	8A-CL3-951-010		RC UNIT,RC-AAT09

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

This set employs laser. Therefore, be sure to follow carefully the instructions below when servicing.

WARNING!!
WHEN SERVICING, DO NOT APPROACH THE LASER EXIT WITH THE EYE TOO CLOSELY. IN CASE IT IS NECESSARY TO CONFIRM LASER BEAM EMISSION. BE SURE TO OBSERVE FROM A DISTANCE OF MORE THAN 30cm FROM THE SURFACE OF THE OBJECTIVE LENS ON THE OPTICAL PICK-UP BLOCK.



- Caution: Invisible laser radiation when open and interlocks defeated avoid exposure to beam.
- Advarsel: Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

VAROITUS!
Laiteen Käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saataa altistaa käyt-täjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteilylle.

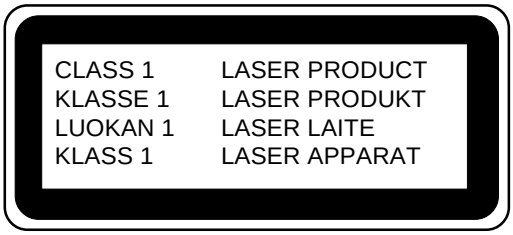
VARNING!
Om apparaten används på annat sätt än vad som specificeras i denna bruksanvising, kan användaren utsättas för osynling laserstrålning, som överskrider gränsen för laserklass 1.

CAUTION
Use of controls or adjustments or performance of procedures other than those specified herin may result in hazardous radiation exposure.

ATTENTION
L'utillisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

ADVARSEL
Usynlig laserståling ved åbning, når sikkerhedsafbrydereer ude af funktion. Undgå udsættelse for stråling.

This Compact Disc player is classified as a CLASS 1 LASER product.
The CLASS 1 LASER PRODUCT label is located on the rear exterior.

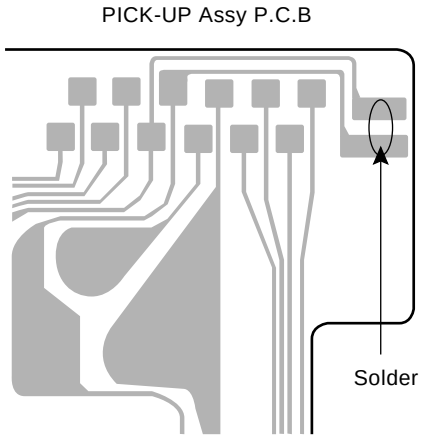


Precaution to replace Optical block

(KSS-213F)

Body or clothes electrostatic potential could ruin laser diode in the optical block. Be sure ground body and workbench, and use care the clothes do not touch the diode.

1) After the connection, remove solder shown in right figure.

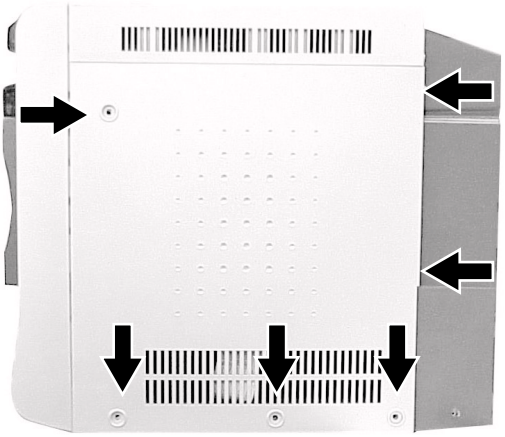


DISASSEMBLY INSTRUCTIONS

1. Disassembling Procedure of the Panels

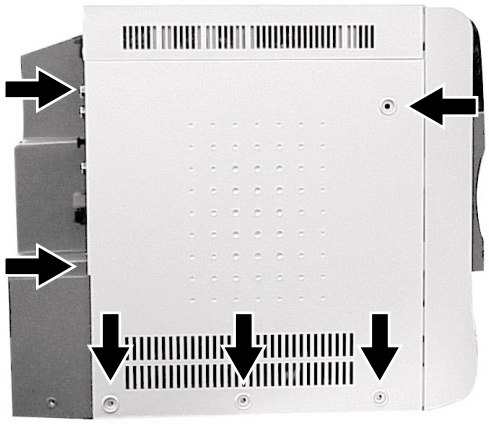
1-1. Removing the PANEL SIDE R

1) Remove the six screws and remove the PANEL SIDE R.



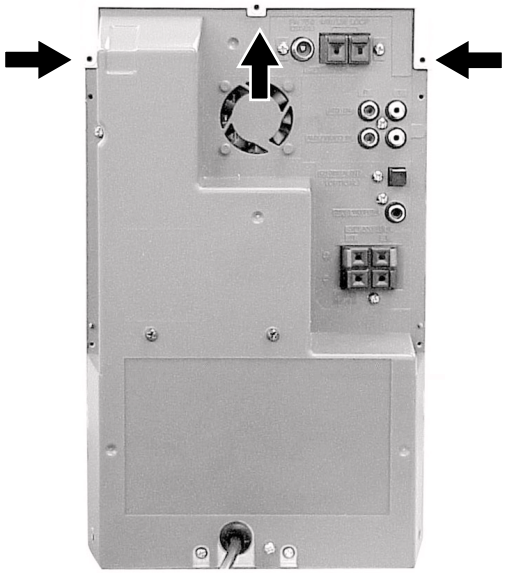
1-2. Removing the PANEL SIDE L

1) Remove the four screws and remove the PANEL SIDE L.



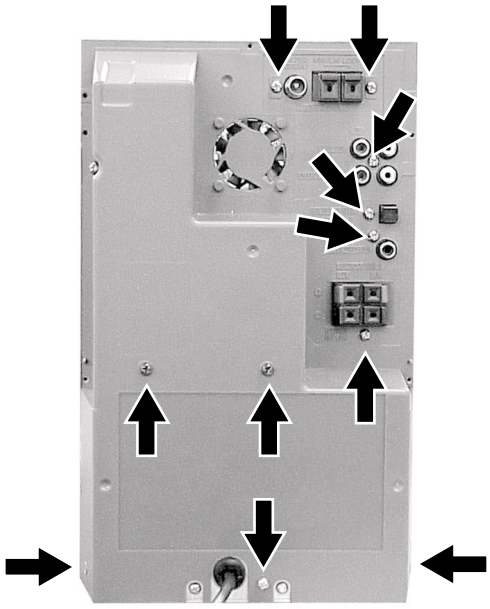
1-3. Removing the PANEL TOP

1) Remove the three screws and remove the PANEL TOP. (Remove the connector of the cassette deck.)



1-4. Removing the PANEL REAR

1) Remove the 11 screws and remove the PANEL REAR.

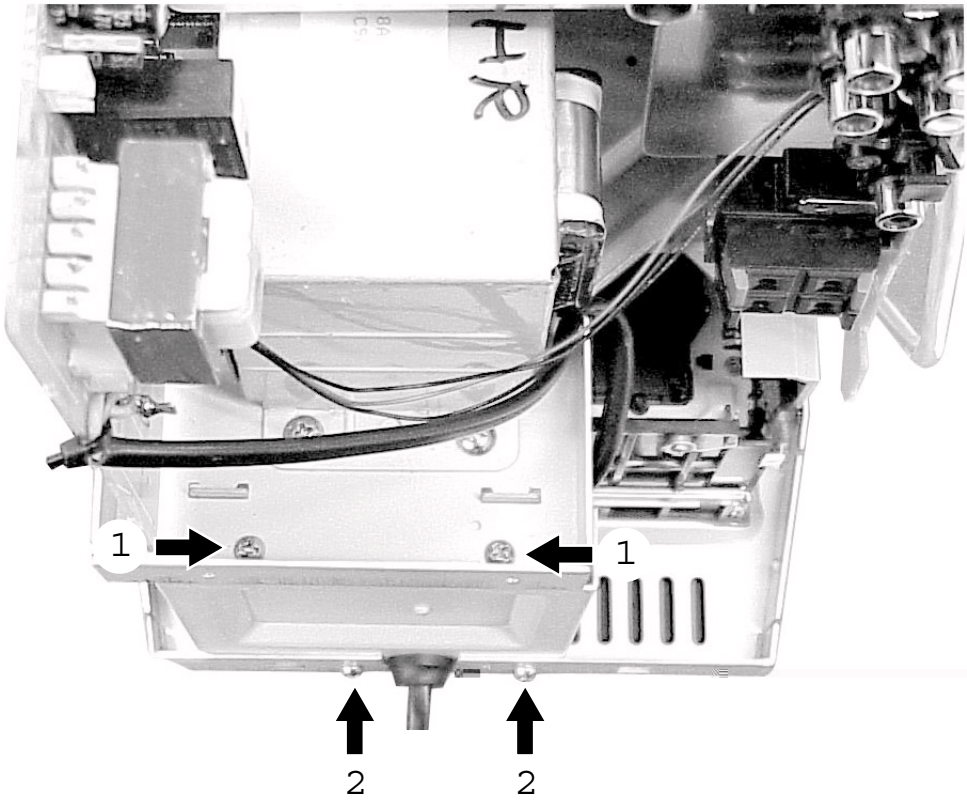


2. Removal Procedure of the CD Mechanism

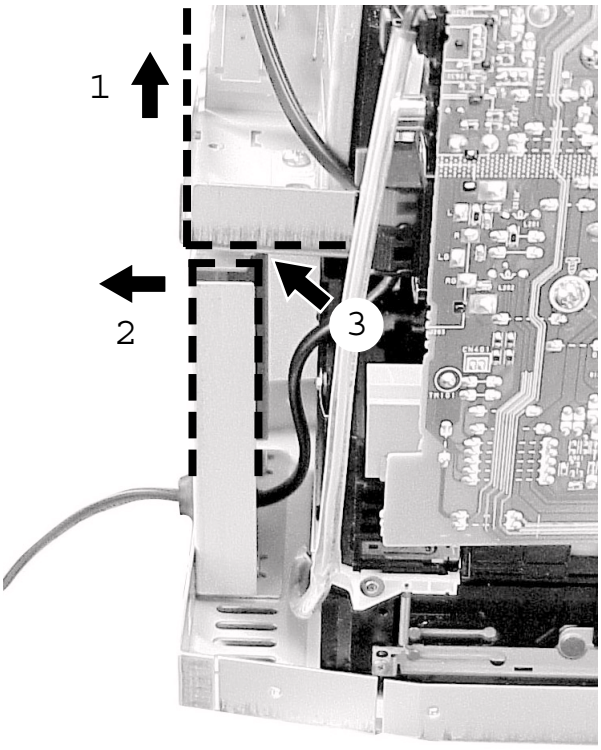
2-1. Pulling out the CD mechanism

1) Lay the set on its side and remove the four screws.

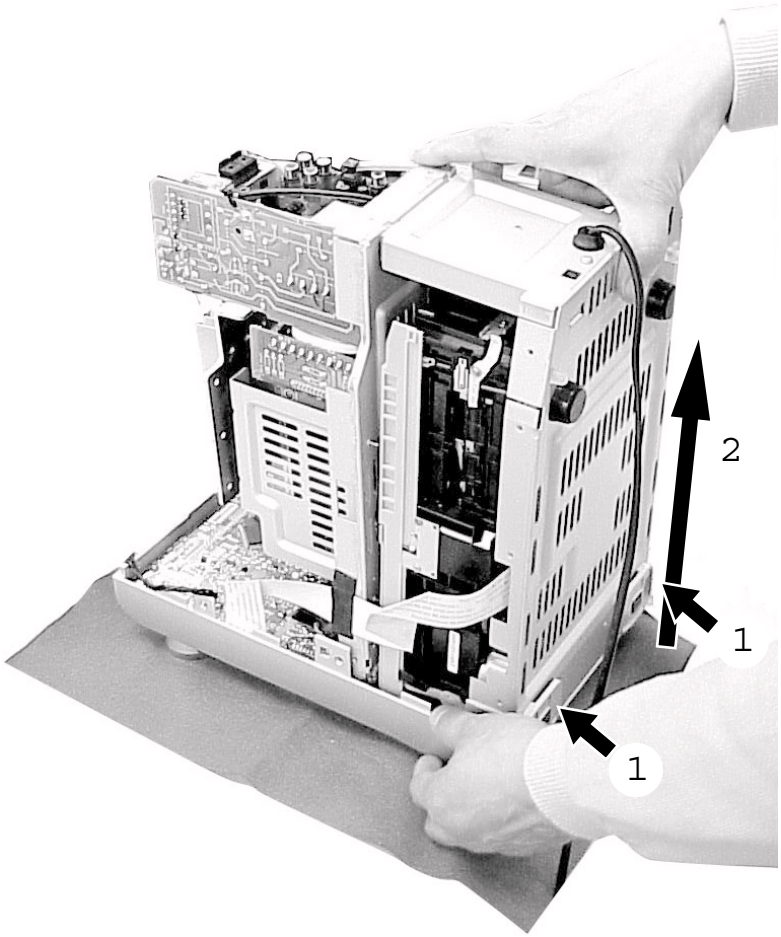
2) 1 Remove two screws of the rear side. 2 And, remove the two screws.



3) Then, remove the FFC of the CD mechanism side. (22P and 6P)
4) 1 Lift up gently the CHAS MD. 2 Pull out the CHAS REAR to the rear side and remove the screw of 3 from the CHAS MD.

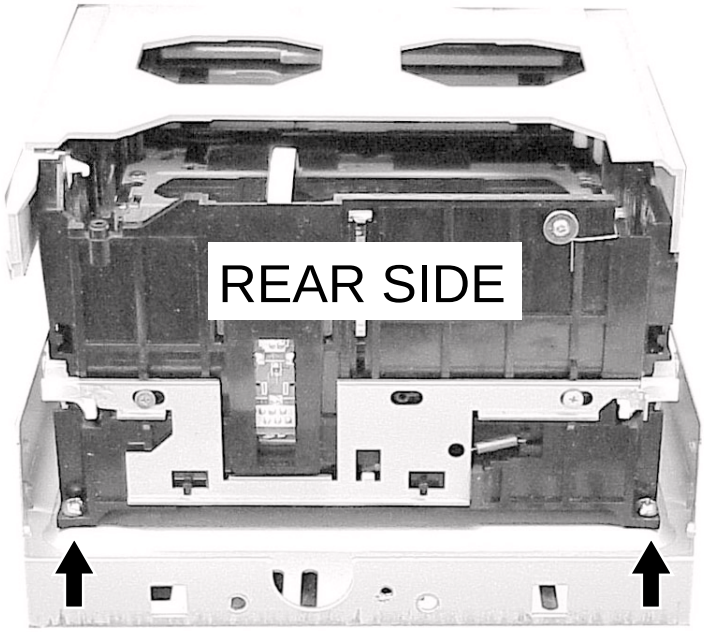


5) While removing the screw of 1, 2 pull out the CD mechanism together with the CHAS MAIN and the CHAS REAR.

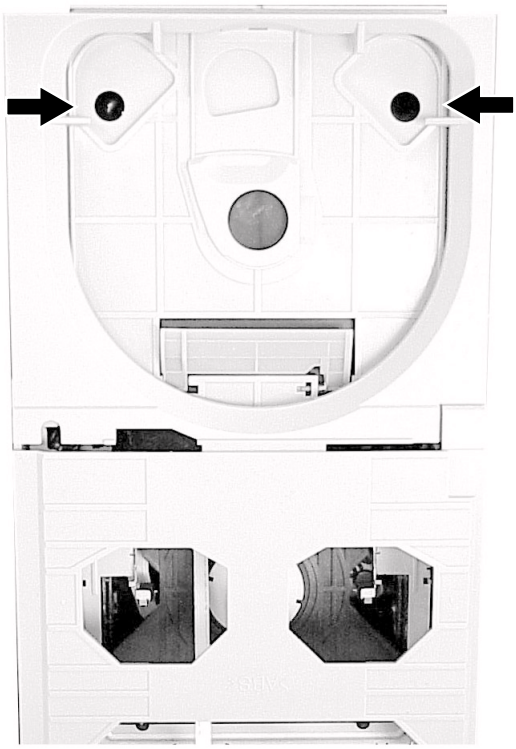


2-2. Removing the CD mechanism from the CHAS MAIN.

1) Remove the two screws.



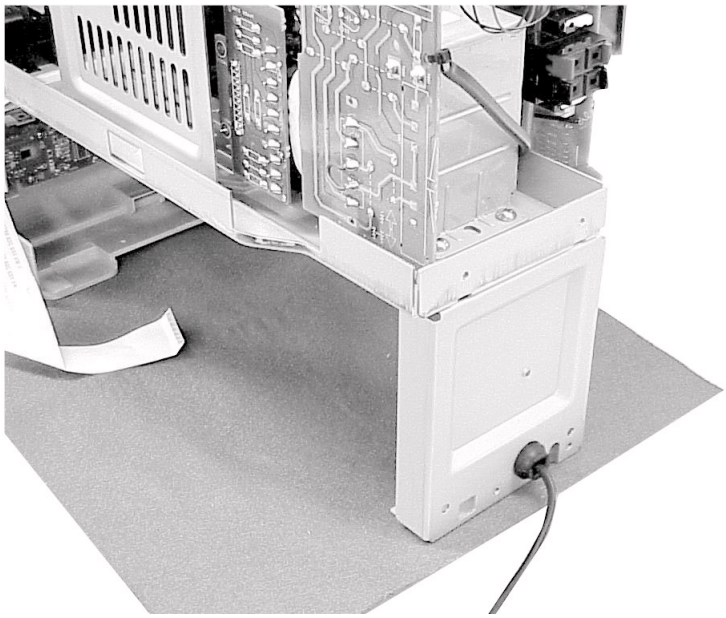
2) Insert a screwdriver into the holes of the arrows and remove the two screws attached in the interior.



3) Remove the CHAS MAIN.

2-3. When checking the operation

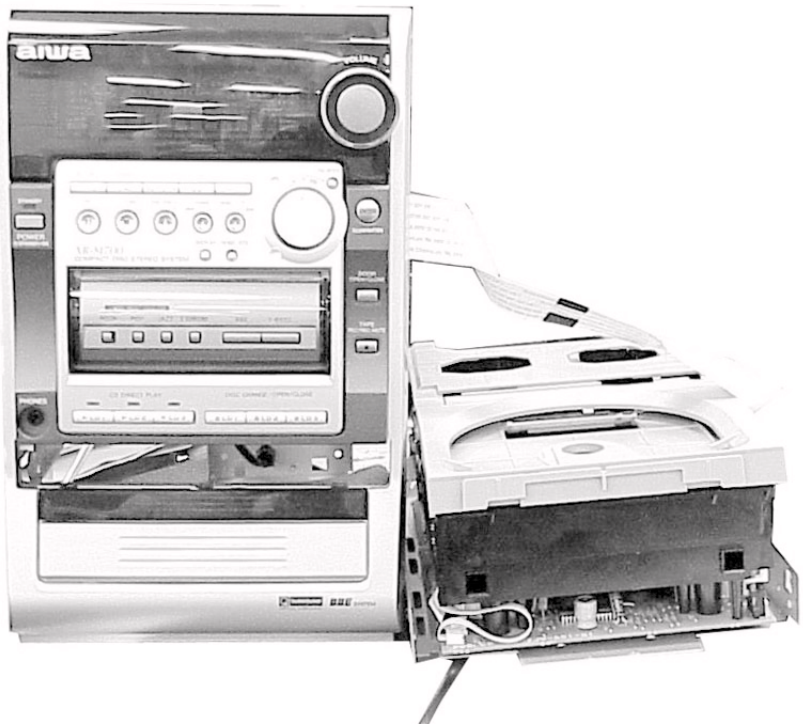
1) Fix the CHAS REAR on the main unit again with the screws of 1 of 3-1 (2).



2) Use the 4ZG-1 extension JIG (6P FFC) of the STI SI-98-028 and T/N G-98-39 to keep a service position. (Use the 22P FFC supplied with the set.)

Extension JIG for repairing

Part Name	Part No.	Remarks
FFC, 6P-1.25	82-NF5-653-010	1.25mm-pitch FFC
JIG KIT	SV-J00-010-010	



ELECTRICAL MAIN PARTS LIST

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
IC			
	87-A21-021-040		C-IC,BU2099FV
	8A-CL3-701-010		C-IC,LC876580W
	87-A20-914-010		IC,SPS-442-1-F
	87-A20-455-010		IC,HA12211
	87-A20-355-010		IC,CXA1553P
	87-A21-452-010		C-IC,BD3876KS2
	87-A21-103-040		C-IC,MM1454XFBE
	87-017-825-010		IC,GP1F32T
	87-020-454-010		IC,DN6851
	87-070-127-110		IC,LC72131D
	87-A20-913-010		IC,LA1837NL
	87-A20-446-010		C-IC,LA9241ML
	87-A20-459-010		C-IC,LC78622ED
	87-A20-445-010		IC,BA5936S
	87-017-917-080		C-IC,BU4066BCF
TRANSISTOR			
	87-A30-073-080		CHIP-TR,RT1N141C
	87-A30-076-080		C-TR,2SC3052F
	89-213-702-010		TR,2SB1370 (1.8W)
	87-026-610-080		TR,KTC3198GR
	87-A30-075-080		C-TR,2SA1235F
	87-A30-234-080		TR,CSC4115BC
	87-A30-107-070		C-TR,CMBT5401
	87-A30-087-080		C-FET,2SK2158
	87-A30-074-080		C-TR,RT1P 141C
	87-026-609-080		TR,KTA1266GR
	87-A30-190-080		TR,CC5551
	87-A30-106-070		C-TR,CMBT5551
	87-A30-105-080		C-TR,RT1P 441C
	87-A30-137-010		TR,2SD2494
	87-A30-138-010		TR,2SB1625
	87-A30-257-080		C-TR,2SD1306E
	87-A30-240-080		TR,CSA1585BC
	87-A30-047-080		TR,CSD655E
	87-A30-159-080		C-TR,KTA1298Y
	87-A30-084-080		TR,CSB1058B
	87-026-580-080		C-TR,DTA123JK
	87-026-235-080		CHIP-TR,DTC114EK
	89-505-434-540		C-FET,2SK543(4/5)
	89-327-143-080		C-TR,2SC27140
	87-A30-086-080		C-TR,CSD1306E
	87-A30-072-080		C-TR,RT1P144C
	87-A30-047-080		TR,CSD655E
	87-026-463-080		TR,2SA933SRS
	87-026-239-080		C-TR,DTC114TK
	89-113-187-080		TR,2SA1318T
	87-026-237-080		C-TR,DTC124XK
	89-327-125-080		C-TR,2SC2712GR
DIODE			
	87-020-465-080		DIODE,1SS133 (110MA)
	87-A40-270-080		C-DIODE,MC2838
	87-A40-269-080		C-DIODE,MC2836
	87-070-274-080		DIODE,1N4003 SEM
	87-070-022-010		DIODE,IN5402 (RECT)
	87-A40-345-080		ZENER,MTZJ10C
	87-A40-650-080		ZENER,MTZJ6.8A
	87-A40-291-080		DIODE,1N4148 (CPT)
	87-A40-004-080		ZENER,MTZJ16A
	87-070-322-080		ZENER,MTZJ 36D
	87-A40-341-080		ZENER,MTZJ 36 A
	87-A40-003-080		ZENER,MTZJ4.3A
	87-A40-250-040		C-DIODE,DAN217
	87-A40-488-080		DIODE,1SS244
	87-A40-437-080		ZENER,MTZJ4.3B
	87-A40-002-080		ZENER,MTZJ5.1C
	87-A40-234-080		ZENER,MTZJ5.6A
	87-070-136-080		ZENER,MTZJ5.1B
	87-017-149-080		ZENER,HZS6A2L
MAIN C.B			
C104	87-012-368-080		C-CAP,S 0.1-50 F
C105	87-012-368-080		C-CAP,S 0.1-50 F
C106	87-010-196-080		CHIP CAPACITOR,0.1-25
C107	87-010-196-080		CHIP CAPACITOR,0.1-25
C108	87-010-196-080		CHIP CAPACITOR,0.1-25
C109	87-010-196-080		CHIP CAPACITOR,0.1-25
C110	87-010-928-000		CAP,E 4700-25 M SMG
C111	87-010-197-080		CAP, CHIP 0.01 DM
C113	87-010-408-080		CAP, ELECT 47-50V
C114	87-010-112-080		CAP, ELECT 100-16V
C115	87-010-235-080		CAP,E 470-16 SME
C116	87-012-368-080		C-CAP,S 0.1-50 F
C117	87-012-368-080		C-CAP,S 0.1-50 F
C118	87-016-658-000		CAP,E 4700-35 M SMG
C119	87-016-658-000		CAP,E 4700-35 M SMG
C131	87-010-263-080		CAP, ELECT 100-10V
C132	87-010-405-080		CAP, ELECT 10-50V
C133	87-010-194-080		CAP, CHIP 0.047
C134	87-010-194-080		CAP, CHIP 0.047
C161	87-010-260-080		CAP, ELECT 47-25V
C162	87-010-403-080		CAP, ELECT 3.3-50V
C163	87-010-197-080		CAP, CHIP 0.01 DM
C171	87-010-260-080		CAP, ELECT 47-25V
C172	87-010-260-080		CAP, ELECT 47-25V
C173	87-010-260-080		CAP, ELECT 47-25V
C174	87-010-260-080		CAP, ELECT 47-25V
C175	87-A12-323-090		CAP,E 100-63 M SMG
C176	87-010-263-080		CAP, ELECT 100-10V
C181	87-010-196-080		CHIP CAPACITOR,0.1-25
C182	87-A11-233-090		CAP,E 4700-16 105 KMG
C183	87-010-196-080		CHIP CAPACITOR,0.1-25
C186	87-016-080-090		CAP,E3300-16 SMG
C191	87-010-196-080		CHIP CAPACITOR,0.1-25
C192	87-010-196-080		CHIP CAPACITOR,0.1-25
C193	87-010-196-080		CHIP CAPACITOR,0.1-25
C194	87-010-196-080		CHIP CAPACITOR,0.1-25
C201	87-010-260-080		CAP, ELECT 47-25V
C202	87-010-260-080		CAP, ELECT 47-25V
C203	87-A10-946-080		C-CAP,S 220P-100 J CH
C204	87-A10-946-080		C-CAP,S 220P-100 J CH
C209	87-010-178-080		CHIP CAP 1000P
C210	87-010-178-080		CHIP CAP 1000P
C211	87-012-368-080		C-CAP,S 0.1-50 F
C212	87-012-368-080		C-CAP,S 0.1-50 F
C213	87-010-195-080		C-CAP,S 0.068-25 F
C214	87-010-195-080		C-CAP,S 0.068-25 F
C215	87-012-368-080		C-CAP,S 0.1-50 F
C216	87-012-368-080		C-CAP,S 0.1-50 F
C217	87-010-182-080		C-CAP,S 2200P-50 B
C218	87-010-182-080		C-CAP,S 2200P-50 B
C219	87-012-368-080		C-CAP,S 0.1-50 F
C220	87-012-368-080		C-CAP,S 0.1-50 F
C221	87-010-186-080		CAP,CHIP 4700P
C222	87-010-186-080		CAP,CHIP 4700P
C223	87-010-401-080		CAP, ELECT 1-50V
C224	87-010-401-080		CAP, ELECT 1-50V
C225	87-010-197-080		CAP, CHIP 0.01 DM
C226	87-010-197-080		CAP, CHIP 0.01 DM
C261	87-010-197-080		CAP, CHIP 0.01 DM
C262	87-010-197-080		CAP, CHIP 0.01 DM
C265	87-010-546-080		CAP, ELECT 0.33-50V
C266	87-010-546-080		CAP, ELECT 0.33-50V
C267	87-010-260-080		CAP, ELECT 47-25V

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C277	87-010-197-080		CAP, CHIP 0.01 DM
C281	87-012-157-080		C-CAP,S 330P-50 CH
C282	87-012-157-080		C-CAP,S 330P-50 CH
C283	87-010-184-080		CHIP CAPACITOR 3300P(K)
C284	87-010-184-080		CHIP CAPACITOR 3300P(K)
C303	87-012-157-080		C-CAP,S 330P-50 CH
C304	87-012-157-080		C-CAP,S 330P-50 CH
C307	87-010-196-080		CHIP CAPACITOR,0.1-25
C311	87-012-365-080		C-CAP,S 0.027-25VBK
C312	87-012-365-080		C-CAP,S 0.027-25VBK
C315	87-010-181-080		CAP,CHIP S 1800P
C316	87-010-181-080		CAP,CHIP S 1800P
C317	87-A10-201-080		C-CAP,S0.33-16 KB
C318	87-A10-201-080		C-CAP,S0.33-16 KB
C319	87-012-141-080		CHIP-CAPACITOR,0.22-16F
C320	87-012-141-080		CHIP-CAPACITOR,0.22-16F
C321	87-012-141-080		CHIP-CAPACITOR,0.22-16F
C322	87-012-141-080		CHIP-CAPACITOR,0.22-16F
C324	87-010-260-080		CAP, ELECT 47-25V
C325	87-010-370-080		CAP,E 330-6.3 SME
C327	87-010-404-080		CAP, ELECT 4.7-50V
C328	87-010-404-080		CAP, ELECT 4.7-50V
C332	87-010-196-080		CHIP CAPACITOR,0.1-25
C335	87-010-401-080		CAP, ELECT 1-50V
C336	87-010-401-080		CAP, ELECT 1-50V
C337	87-010-196-080		CHIP CAPACITOR,0.1-25
C339	87-010-196-080		CHIP CAPACITOR,0.1-25
C340	87-010-196-080		CHIP CAPACITOR,0.1-25
C351	87-012-140-080		CAP 470P
C352	87-012-140-080		CAP 470P
C354	87-010-175-080		CAP 560P
C355	87-010-178-080		CHIP CAP 1000P
C356	87-010-260-080		CAP, ELECT 47-25V
C357	87-010-197-080		CAP, CHIP 0.01 DM
C358	87-010-183-080		C-CAP,S 2700P-50 B
C359	87-010-183-080		C-CAP,S 2700P-50 B
C360	87-010-183-080		C-CAP,S 2700P-50 B
C370	87-010-196-080		CHIP CAPACITOR,0.1-25
C371	87-010-179-080		CAP,CHIP S B1200P
C372	87-010-179-080		CAP,CHIP S B1200P
C373	87-010-185-080		C-CAP,S 3900P-50 B
C374	87-010-185-080		C-CAP,S 3900P-50 B
C375	87-010-545-080		CAP, ELECT 0.22-50V
C376	87-010-545-080		CAP, ELECT 0.22-50V
C378	87-010-196-080		CHIP CAPACITOR,0.1-25
C381	87-010-197-080		CAP, CHIP 0.01 DM
C382	87-010-318-080		C-CAP,S 47P-50 CH
C383	87-010-197-080		CAP, CHIP 0.01 DM
C384	87-010-402-080		CAP, ELECT 2.2-50V
C385	87-010-184-080		CHIP CAPACITOR 3300P(K)
C386	87-010-196-080		CHIP CAPACITOR,0.1-25
C388	87-012-156-080		C-CAP,S 220P-50 CH
C389	87-010-380-080		CAP, ELECT 47-16V
C401	87-010-401-080		CAP, ELECT 1-50V
C402	87-010-263-080		CAP, ELECT 100-10V
C403	87-010-260-080		CAP, ELECT 47-25V
C410	87-010-260-080		CAP, ELECT 47-25V
C461	87-010-402-080		CAP, ELECT 2.2-50V
C462	87-010-400-080		CAP, ELECT 0.47-50V
C501	87-010-374-080		CAP, ELECT 47-10V
C502	87-010-374-080		CAP, ELECT 47-10V
C503	87-010-178-080		C-CAP,S 1000P-50KB
C504	87-018-209-080		CAP, TC U 0.1-50 ZF
C511	87-010-180-080		C-CER 1500P
C512	87-010-180-080		C-CER 1500P
C515	87-010-318-080		C-CAP,S 47P-50 CH
C516	87-010-318-080		C-CAP,S 47P-50 CH
C517	87-010-318-080		C-CAP,S 47P-50 CH
C518	87-010-318-080		C-CAP,S 47P-50 CH
C521	87-010-956-080		CHIP-CAP,S 0.068-25B
C522	87-016-369-080		C-CAP,S 0.033-25 B K
C524	87-010-401-080		CAP, ELECT 1-50V
C525	87-016-081-080		C-CAP,S 0.1-16 RK
C526	87-016-081-080		C-CAP,S 0.1-16 RK
C527	87-010-197-080		CAP, CHIP 0.01 DM
C528	87-010-197-080		CAP, CHIP 0.01 DM
C531	87-010-404-080		CAP, ELECT 4.7-50V
C532	87-010-404-080		CAP, ELECT 4.7-50V
C535	87-A11-590-080		C-CAP,S 0.047-16 K B
C536	87-A11-590-080		C-CAP,S 0.047-16 K B
C537	87-010-400-080		CAP, ELECT 0.47-50V
C538	87-010-400-080		CAP, ELECT 0.47-50V
C539	87-010-185-080		C-CAP,S 3900P-50 B
C540	87-010-185-080		C-CAP,S 3900P-50 B
C541	87-A10-307-080		CAP,M 0.1-50 J
C542	87-A10-307-080		CAP,M 0.1-50 J
C543	87-A10-307-080		CAP,M 0.1-50 J
C544	87-A10-307-080		CAP,M 0.1-50 J
C545	87-016-081-080		C-CAP,S 0.1-16 RK
C546	87-016-081-080		C-CAP,S 0.1-16 RK
C547	87-010-401-080		CAP, ELECT 1-50V
C548	87-010-196-080		CHIP CAPACITOR,0.1-25
C549	87-010-401-080		CAP, ELECT 1-50V
C550	87-010-401-080		CAP, ELECT 1-50V
C565	87-010-403-080		CAP, ELECT 3.3-50V
C571	87-012-158-080		C-CAP,S 390P-50 CH
C583	87-012-156-080		C-CAP,S 220P-50 CH
C584	87-012-156-080		C-CAP,S 220P-50 CH
C593	87-012-156-080		C-CAP,S 220P-50 CH
C594	87-012-156-080		C-CAP,S 220P-50 CH
C595	87-010-400-080		CAP, ELECT 0.47-50V
C596	87-010-178-080		CHIP CAP 1000P
C597	87-010-196-080		C-CAP,S 0.1-25 ZF
C603	87-010-544-080		CAP, ELECT 0.1-50V
C604	87-010-544-080		CAP, ELECT 0.1-50V
C605	87-010-408-080		CAP, ELECT 47-50V
C607	87-010-405-080		CAP, ELECT 10-50V
C608	87-010-405-080		CAP, ELECT 10-50V
C609	87-010-196-080		CHIP CAPACITOR,0.1-25
C610	87-010-384-080		CAP, ELECT 100-25V
C611	87-010-197-080		CAP, CHIP 0.01 DM
C612	87-010-197-080		CAP, CHIP 0.01 DM
C901	87-010-196-080		CHIP CAPACITOR,0.1-25
C906	87-010-196-080		CHIP CAPACITOR,0.1-25
CN301	87-A60-624-010		CONN,7P V 2MM JMT
CN401	87-A60-619-010		CONN,2P V 2MM JMT
CN501	87-099-719-010		CONN,30P TYK-B(X)
CN504	87-A60-131-010		CONN,6P V FE
CN571	87-099-570-010		CONN,13P TUC-P13P-B1
CNA101	8A-CJ3-640-010		CONN ASSY,3P V AC1
CNA901	8A-CJ3-648-010		CONN ASSY,2P V DTL SHLD
J201	87-A60-420-010		JACK,3.5 ST (MSC)
J202	87-099-801-010		JACK,PIN 1P BLK
J203	87-A60-238-010		TERMINAL,SP 4P (MSC)
J502	87-099-625-010		JACK PIN 4P,RVS (KM)
JW307	87-008-372-080		FLTR,EMI BL01 RN1
L201	87-003-383-010		COIL,1UH-S
L202	87-003-383-010		COIL,1UH-S
L203	87-003-098-080		COIL,2.2UH K LAL02
L205	87-003-098-080		COIL,2.2UH K LAL02
L206	87-003-098-080		COIL,2.2UH K LAL02
L301	87-A50-049-010		COIL,TRAP 85K(COI)
L302	87-A50-049-010		COIL,TRAP 85K(COI)
L351	87-007-342-010		COIL,OSC 85K BIAS
L590	87-008-372-080		FILTER, EMI BL OIRNI
R215	87-A00-258-080		RES,M/F 0.22-1W J
R216	87-A00-258-080		RES,M/F 0.22-1W J
R217	87-A00-258-080		RES,M/F 0.22-1W J
R218	87-A00-258-080		RES,M/F 0.22-1W J
R219	87-A00-258-080		RES,M/F 0.22-1W J

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
R220	87-A00-258-080		RES,M/F 0.22-1W J
R565	87-003-143-080		COIL 4.7 UH
R566	87-003-143-080		COIL 4.7 UH
R591	87-003-143-080		COIL 4.7 UH
R592	87-003-143-080		COIL 4.7 UH
SFR303	87-A90-557-080		SFR,33K H HOKU
SFR304	87-A90-557-080		SFR,33K H HOKU
SFR305	87-024-436-080		SFR,47K RH063MC
SFR306	87-024-436-080		SFR,47K RH063MC
SFR351	87-024-436-080		SFR,47K RH063MC
SFR352	87-024-436-080		SFR,47K RH063MC
TH251	87-A91-042-080		C-THMS,100K 55001
TH252	87-A91-042-080		C-THMS,100K 55001
W101	8Z-CL4-658-010		F-CABLE,10P 2.5 300MM
W506	88-906-221-110		F-CABLE,6P 1.25

FRONT C.B

C161	87-010-196-080		CHIP CAPACITOR,0.1-25
C162	87-010-322-080		C-CAP,S 100P-50 CH
C166	87-010-178-080		C-CAP,S 1000P-50
C167	87-010-196-080		C-CAP,S 0.1-25 ZF
C201	87-010-316-080		C-CAP,S 33P-50 CH
C203	87-010-314-080		C-CAP,S 22P-50V
C204	87-010-196-080		CHIP CAPACITOR,0.1-25
C205	87-010-197-080		CAP, CHIP 0.01 DM
C206	87-010-197-080		CAP, CHIP 0.01 DM
C207	87-018-134-080		CAPACITOR,TC-U 0.01-16
C231	87-010-405-080		CAP, ELECT 10-50V
C232	87-010-178-080		CHIP CAP 1000P
C240	87-010-264-040		CAP,E 100-10 5L
C241	87-010-400-080		CAP, ELECT 0.47-50V
C242	8A-CJ4-635-010		CAP,E 470-10 SRG3.5PITCH
C243	87-010-196-080		CHIP CAPACITOR,0.1-25
C246	87-012-393-080		C-CAP,S 0.22-16 R K
C250	87-010-198-080		CAP, CHIP 0.022
C351	87-010-197-080		CAP, CHIP 0.01 DM
C352	87-010-197-080		CAP, CHIP 0.01 DM
C353	87-010-197-080		CAP, CHIP 0.01 DM
C354	87-010-197-080		CAP, CHIP 0.01 DM
C371	87-010-379-040		CAP,E 22-16 M SME
C372	87-010-379-040		CAP,E 22-16 M SME
C373	87-010-408-080		CAP, ELECT 47-50V
C374	87-010-404-080		CAP, ELECT 4.7-50V
C375	87-010-404-080		CAP, ELECT 4.7-50V
C380	87-010-555-080		CAP, E 100-10V
C382	87-015-819-080		CAPACITOR,0.01
C383	87-015-819-080		CAPACITOR,0.01
C387	87-010-196-080		CHIP CAPACITOR,0.1-25
C901	87-010-264-040		CAP,E 100-10 5L
C902	87-010-264-040		CAP,E 100-10 5L
C936	87-010-197-080		CAP, CHIP 0.01 DM
CN101	87-099-720-010		CONN,30P TYK-B(P)
CN102	87-A60-049-010		CONN,22P V 9604S-22C
CNA301	8A-CJ3-647-010		CONN ASSY,7P V RPH SHILD
CNA304	8A-CL3-642-010		CONN ASSY,2P V KEY
CNA401	88-805-091-420		CONN ASSY,9P
D151	87-A40-317-080		LED,SLR-342VCT31 RED
D152	87-A40-619-040		LED,SLR-56PT-T31-W GRN
D153	87-A40-619-040		LED,SLR-56PT-T31-W GRN
D154	87-A40-619-040		LED,SLR-56PT-T31-W GRN
D155	87-A40-619-040		LED,SLR-56PT-T31-W GRN
D156	87-A40-619-040		LED,SLR-56PT-T31-W GRN
D171	87-A40-317-080		LED,SLR-342VCT31 RED
D172	87-A40-317-080		LED,SLR-342VCT31 RED
D173	87-A40-317-080		LED,SLR-342VCT31 RED
FL301	8A-CJ3-604-010		FL,14-BT-61GNK ACJ-3
L201	87-A50-333-010		COIL,OSC 9.43MHZ
S301	87-A90-095-080		SW,TACT EVQ11G04M
S302	87-A90-095-080		SW,TACT EVQ11G04M

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
S303	87-A90-095-080		SW,TACT EVQ11G04M
S304	87-A90-095-080		SW,TACT EVQ11G04M
S305	87-A90-095-080		SW,TACT EVQ11G04M
S306	87-A90-095-080		SW,TACT EVQ11G04M
S307	87-A90-095-080		SW,TACT EVQ11G04M
S308	87-A90-095-080		SW,TACT EVQ11G04M
S309	87-A90-095-080		SW,TACT EVQ11G04M
S310	87-A90-095-080		SW,TACT EVQ11G04M
S311	87-A90-095-080		SW,TACT EVQ11G04M
S321	87-A90-095-080		SW,TACT EVQ11G04M
S324	87-A90-095-080		SW,TACT EVQ11G04M
S325	87-A90-095-080		SW,TACT EVQ11G04M
S326	87-A90-095-080		SW,TACT EVQ11G04M
S327	87-A90-095-080		SW,TACT EVQ11G04M
S328	87-A90-095-080		SW,TACT EVQ11G04M
S341	87-A90-095-080		SW,TACT EVQ11G04M
S342	87-A90-095-080		SW,TACT EVQ11G04M
S343	87-A90-095-080		SW,TACT EVQ11G04M
S344	87-A90-095-080		SW,TACT EVQ11G04M
S345	87-A90-095-080		SW,TACT EVQ11G04M
S346	87-A90-095-080		SW,TACT EVQ11G04M
S351	87-A91-351-010		SW,RTRY 1-2-12 RE0121PV2B25FIN
S352	87-A91-687-010		SW,RTRY RE012102PV-VOL
W102	8A-CJ3-605-010		FF-CABLE,22P 1.25 350MM

TUNER C.B

C701	87-010-381-080		CAP,ELECT 330-16V
C702	87-010-404-080		CAP,ELECT 4.7-50V
C703	87-012-286-080		CAP,U 0.01-25
C704	87-012-286-080		CAP,U 0.01-25
C709	87-012-195-080		C-CAP,U 100P-50CH
C711	87-010-260-080		CAP,ELECT 47-25V
C712	87-010-831-080		C-CAP,U,0.1-16F
C713	87-012-286-080		CAP,U 0.01-25
C714	87-012-286-080		CAP,U 0.01-25
C715	87-012-195-080		C-CAP,U 100P-50CH
C717	87-012-286-080		CAP,U 0.01-25
C719	87-012-286-080		CAP,U 0.01-25
C720	87-012-195-080		C-CAP,U 100P-50CH
C721	87-012-176-080		CAP,15P
C722	87-012-176-080		CAP,15P
C723	87-012-274-080		CHIP CAP,U 1000P-50B
C725	87-018-131-080		CAP,TC U 1000P-50 KB
C727	87-010-196-080		CHIP CAPACITOR,0.1-25
C728	87-010-248-080		CAP,ELECT 220-10V
C729	87-012-274-080		CHIP CAP,U 1000P-50B
C731	87-012-286-080		CAP,U 0.01-25
C733	87-012-280-080		C-CAP,U 3300P-50 KB
C734	87-012-280-080		C-CAP,U 3300P-50 KB
C752	87-012-282-080		C-CAP,U 4700P-50 KB
C753	87-012-195-080		C-CAP,U 100P-50 J CH
C755	87-012-286-080		CAP,U 0.01-25
C756	87-012-286-080		CAP,U 0.01-25
C757	87-012-188-080		C-CAP,U 47P-50 CH
C758	87-012-167-080		C-CAP,U 5P-50 CH
C761	87-010-196-080		C-CAP,S 0.1-25 ZF
C762	87-012-286-080		CAP,U 0.01-25
C763	87-010-829-080		CAP,U 0.047-16
C765	87-012-286-080		CAP,U 0.01-25
C766	87-010-197-080		C-CAP,S 0.01-25 KB
C768	87-012-286-080		CAP,U 0.01-25
C769	87-010-260-080		CAP,ELECT 47-25V
C770	87-010-829-080		CAP,U 0.047-16
C771	87-010-383-080		CAP,ELECT 33-25V
C772	87-010-829-080		CAP,U 0.047-16
C773	87-010-196-080		CHIP CAPACITOR,0.1-25
C774	87-010-263-080		CAP,ELECT 100-10V
C775	87-010-404-080		CAP,ELECT 4.7-50V
C776	87-012-286-080		CAP,U 0.01-25

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C777	87-010-493-080		CAP,E 0.47-50 M 5L SRE
C778	87-010-401-080		CAP,ELECT 1-50V
C779	87-010-401-080		CAP,ELECT 1-50V
C780	87-010-196-080		CHIP CAPACITOR,0.1-25
C781	87-010-405-080		CAP,ELECT 10-50V
C782	87-010-405-080		CAP,ELECT 10-50V
C783	87-012-286-080		CAP,U 0.01-25
C784	87-012-286-080		CAP,U 0.01-25
C785	87-010-402-080		CAP, ELECT 2.2-50V
C786	87-010-402-080		CAP,ELECT 2.2-50V
C787	87-012-275-080		C-CAP,U 1200P-50 B
C788	87-012-275-080		C-CAP,U 1200P-50 B
C789	87-012-275-080		C-CAP,U 1200P-50 B
C790	87-012-275-080		C-CAP,U 1200P-50 B
C791	87-010-405-080		CAP,ELECT 10-50V
C793	87-012-273-080		C-CAP,U 820P-50 B
C794	87-010-406-080		CAP,ELECT 22-50
C795	87-010-596-080		CAP,S 0.047-16
C796	87-010-403-080		CAP,ELECT 3.3-50V
C797	87-012-276-080		C-CAP,U 1500P-50 KB
C798	87-012-276-080		C-CAP,U 1500P-50 KB
C799	87-010-829-080		CAP,U 0.047-16
C812	87-012-286-080		CAP,U 0.01-25
C814	87-012-286-080		CAP,U 0.01-25
C820	87-010-260-080		CAP,ELECT 47-25V
C821	87-012-286-080		CAP,U 0.01-25
C822	87-012-286-080		CAP,U 0.01-25
C823	87-012-286-080		CAP,U 0.01-25
C828	87-010-196-080		CHIP CAPACITOR,0.1-25
C829	87-010-196-080		CHIP CAPACITOR,0.1-25
C940	87-012-286-080		C-CAP,U 0.01-25 KB
C942	87-012-168-080		C-CAP,U 6P-50 D CH
C947	87-012-286-080		C-CAP,U 0.01-25 KB
C949	87-A10-039-080		C-CAP,U 470P-50 J CH
C952	87-012-286-080		C-CAP,U 0.01-25 KB
C958	87-010-197-080		C-CAP,S 0.01-25 KB
C959	87-010-831-080		C-CAP,U 0.1-16 ZF
C960	87-010-196-080		CHIP CAPACITOR,0.1-25
C962	87-010-401-080		CAP,E 1-50 M 11L SME
CF801	87-008-423-010		FLTR,CF SFE10.7MS3G-A
CF802	82-785-747-010		CF,MS2 GHY R
CN701	87-A60-700-010		CONN,13P H GRY TUC-P13X-C1
FFE801	A8-6ZA-19H-030		6ZA-1 FEMENM
J801	87-033-241-010		TERMINAL,ANT 2P AJ-2039
L771	87-A50-266-010		COIL,FM DET-2N(TOK)
L772	87-A91-110-010		FLTR,PCFJZH-450(TOK)
L781	87-005-847-010		COIL,2.2UH K CECS
L791	87-A50-027-010		COIL,1 POLE MPX(TOK)
L792	87-A50-027-010		COIL,1 POLE MPX(TOK)
L832	87-005-847-080		COIL,2.2UH K CECS
L941	87-A50-020-010		COIL,ANT LW(COI)252KHZ
L942	87-A50-019-010		COIL,OSC LW(COI) 856KHZ
L981	8Z-ZA1-665-010		COIL,AM PACK 2(TOK)
TC942	87-A91-658-010		TRIMMER,30P 4.0X4.5 ECRL
X721	87-A70-061-010		VIB,XTAL 4.500MHZ CSA-309

REC C.B

CNA302	8A-CL3-641-010		CONN ASSY,5P V LED
D862	87-A40-786-080		LED,SMLS1BE16WTP4 BLU/UMB
D863	87-A40-786-080		LED,SMLS1BE16WTP4 BLU/UMB

KEY C.B

S361	87-A90-095-080		SW,TACT EVQ11GO4M
S362	87-A90-095-080		SW,TACT EVQ11GO4M
S363	87-A90-095-080		SW,TACT EVQ11GO4M
S364	87-A90-095-080		SW,TACT EVQ11GO4M
S365	87-A90-095-080		SW,TACT EVQ11GO4M
S366	87-A90-095-080		SW,TACT EVQ11GO4M

SW C.B

S901	87-A90-117-010		SW,PUSH 1-1-1 MPU103
S902	87-A90-117-010		SW,PUSH 1-1-1 MPU103

PT1 C.B

C1	87-010-388-080		CAP,E 100-25 SME
C3	87-A10-479-080		CAP,CER 2200P-250 M E KH
C5	87-010-403-080		CAP, ELECT 3.3-50V
CN1	87-A60-620-010		CONN,3P V 2MM JMT
⚠ PT1	8A-CJ4-608-010		PT,E ACJ-4
⚠ PT2	8A-NF8-662-010		PT,SUB ANF-8 (E)
⚠ RY1	87-A90-976-010		RELAY,AC12V SDT-S-112LMR
⚠ T1	87-A60-317-010		TERMINAL, 1P MSC
⚠ T2	87-A60-317-010		TERMINAL, 1P MSC

PT2 C.B

⚠ PR51	87-A90-094-080		PROTECTOR,4A 491SERIES 60V
⚠ PR52	87-A90-094-080		PROTECTOR,4A 491SERIES 60V
⚠ PR53	87-026-681-080		PROTECTOR,5A 60V 491
⚠ PR54	87-026-681-080		PROTECTOR,5A 60V 491
⚠ PR55	87-026-681-080		PROTECTOR,5A 60V 491
⚠ PR56	87-026-681-080		PROTECTOR,5A 60V 491

DECK C.B

CON1	87-009-352-010		CONN,9P PH H
SFR1	87-024-581-010		SFR,3.3K H KVSF637A
SOL1	82-ZM1-634-010		SOL ASSY,23K
SW2	87-036-110-010		SW,MICRO SPPB62
SW3	87-036-110-010		SW,MICRO SPPB62
SW4	87-036-110-010		SW,MICRO SPPB62
SW5	87-036-110-010		SW,MICRO SPPB62
SW6	87-A90-248-010		SW,MICRO ESE11SH2CXQ
W1	82-ZM1-625-010		RBN-CORD,4P-55

RELAY C.B

CNA301	8A-CJ3-647-010		CONN ASSY,7P V RPH SHILD

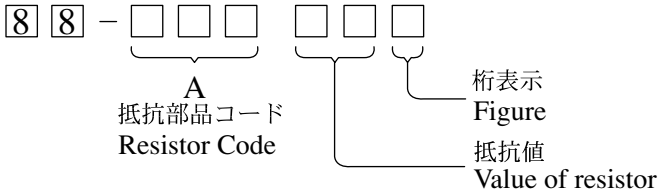
CD C.B

C1	87-010-403-080		CAP,ELECT 3.3-50V
C2	87-010-197-080		CAP,CHIP 0.01 DM
C3	87-010-263-080		CAP,ELECT 100-10V
C4	87-010-248-080		CAP,ELECT 220-10V
C5	87-010-197-080		CAP,CHIP 0.01 DM
C6	87-010-374-080		CAP,ELECT 47-10V
C7	87-012-349-080		C-CAP,S 1000P-50 CH
C8	87-010-198-080		CAP,CHIP 0.022
C9	87-010-248-080		CAP,ELECT 220-10V
C10	87-010-263-080		CAP,ELECT 100-10V
C12	87-010-401-080		CAP,ELECT 1-50V
C13	87-010-193-080		CHIP CAPACITOR,0.033
C14	87-010-405-080		CAP,ELECT 10-50V
C16	87-010-491-040		CAP,E 0.22-50 GAS
C17	87-012-157-080		C-CAP,S 330P-50 CH
C18	87-010-213-080		C-CAP,S 0.015-50 B
C20	87-010-193-080		CHIP CAPACITOR,0.033
C22	87-010-183-080		C-CAP,S 2700P-50 B
C23	87-010-956-080		CHIP-CAP,S 0.068-25B
C25	87-010-994-080		C-CAP,S 680P-50 CH
C29	87-010-186-080		CAP,CHIP 4700P
C30	87-012-156-080		C-CAP,S 220P-50 CH
C31	87-010-400-080		CAP,ELECT 0.47-50V
C32	87-010-374-080		CAP,ELECT 47-10V
C33	87-010-401-080		CAP,ELECT 1-50V
C34	87-010-184-080		CHIP CAPACITOR,3300P(K)

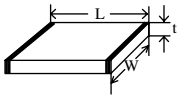
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C35	87-010-197-080		CAP,CHIP 0.01 DM
C36	87-010-374-080		CAP,ELECT 47-10V
C37	87-010-404-080		CAP,ELECT 4.7-50V
C38	87-010-196-080		CHIP CAPACITOR,0.1-25
C39	87-010-178-080		C-CAP,S 1000P-50 KB
C40	87-010-145-080		C-CAP,S 1P-50 CH
C42	87-010-314-080		C-CAP,S 22P-50 CH
C45	87-010-196-080		CHIP CAPACITOR,0.1-25
C46	87-010-196-080		CHIP CAPACITOR,0.1-25
C47	87-010-196-080		CHIP CAPACITOR,0.1-25
C48	87-010-315-080		C-CAP,S 27P-50 CH
C50	87-012-140-080		CAP,470P
C51	87-012-156-080		C-CAP,S 220P-50 CH
C55	87-010-263-080		CAP,ELECT 100-10V
C57	87-010-316-080		C-CAP,S 33P-50 CH
C58	87-010-316-080		C-CAP,S 33P-50 CH
C59	87-010-263-080		CAP,ELECT 100-10V
C60	87-010-196-080		CHIP CAPACITOR,0.1-25
C61	87-010-196-080		CHIP CAPACITOR,0.1-25
C62	87-010-221-080		CAP,ELECT 470-10V
C65	87-010-404-080		CAP,ELECT 4.7-50V
C66	87-010-196-080		CHIP CAPACITOR,0.1-25
C67	87-010-263-080		CAP,ELECT 100-10V
C68	87-010-322-080		C-CAP,S 100P-50 CH
C69	87-012-154-080		C-CAP,S 150P-50 CH
C75	87-010-197-080		CAP,CHIP 0.01 DM
C76	87-A10-102-080		CAP,E 1000-10 REA
C77	87-010-197-080		CAP,CHIP 0.01 DM
C78	87-010-221-080		CAP,ELECT 470-10V
C79	87-010-263-080		CAP,ELECT 100-10V
C80	87-010-197-080		CAP,CHIP 0.01 DM
C81	87-010-405-080		CAP,ELECT 10-50V
C82	87-010-405-080		CAP,ELECT 10-50V
C83	87-010-181-080		CAP,CHIP S 1800P
C84	87-010-181-080		CAP,CHIP S 1800P
C90	87-010-196-080		CHIP CAPACITOR,0.1-25
C91	87-010-553-040		CAP,E 47-16 GAS
C92	87-010-552-040		CAP,E 22-16 GAS
C93	87-010-197-080		CAP,CHIP 0.01 DM
C94	87-015-819-080		CAPACITOR,0.01
C95	87-010-197-080		CAP,CHIP 0.01 DM
C96	87-010-196-080		CHIP CAPACITOR,0.1-25
C97	87-010-180-080		C-CAP,S 1500P-50 KB
C98	87-010-197-080		CAP,CHIP 0.01 DM
C101	87-010-322-080		C-CAP,S 100P-50 CH
C102	87-010-322-080		C-CAP,S 100P-50 CH
C103	87-010-322-080		C-CAP,S 100P-50 CH
C104	87-010-322-080		C-CAP,S 100P-50 CH
C105	87-010-322-080		C-CAP,S 100P-50 CH
C110	87-010-196-080		CHIP CAPACITOR,0.1-25
C201	87-010-552-040		CAP,E 22-16 GAS
C211	87-010-552-040		CAP,E 22-16 GAS
C221	87-010-196-080		CHIP CAPACITOR,0.1-25
C222	87-010-405-080		CAP,ELECT 10-50V
C223	87-010-405-080		CAP,ELECT 10-50V
C224	87-010-196-080		CHIP CAPACITOR,0.1-25
C225	87-010-405-080		CAP,ELECT 10-50V
C226	87-010-405-080		CAP,ELECT 10-50V
C241	87-010-180-080		C-CAP,S 1500P-50 KB
C243	87-010-180-080		C-CAP,S 1500P-50 KB
C244	87-010-180-080		C-CAP,S 1500P-50 KB
C251	87-010-552-040		CAP,E 22-16 GAS
C495	87-010-196-080		CHIP CAPACITOR,0.1-25
CN1	87-A60-424-010		CONN,16P V TOC-B
CN2	87-A60-081-010		CONN,06P H 9604S-06F
CN3	87-099-760-010		CONN,22P H 9604
CN4	87-A60-081-010		CONN,06P H 9604S-06F
CN7	87-A60-081-010		CONN,06P H 9604S-06F
CN8	87-A60-083-010		CONN,04P H 9604S-04F
CNA1	87-A60-619-010		CONN,2P V 2MM JMT
D221	87-070-288-010		LED,GL380
FC1	8Z-ZG4-610-010		FF-CABLE,16P 1.0 70MM PIC
FC2	88-906-191-110		FF-CABLE,6P 1.25
FC7	88-906-151-110		FF-CABLE,6P 1.25
FC8	84-ZG2-612-110		CABLE,FFC 4P L=225
FC10	8Z-ZG4-614-010		F-CABLE,2P 130MM LED
JW2	87-003-146-080		COIL,15UH
L1	87-003-102-080		COIL,10UH
L4	87-003-152-080		COIL,100UH
PS231	87-A91-378-010		SNSR,SG-267
R68	87-A50-189-080		C-COIL,S BLM21B272S
SFR130	87-021-868-010		SFR,100K V H0614C
SW201	88-ZG5-606-010		SW,MODE MMS00420
SW204	87-A91-040-010		SW,LVR SSCF31P-1
X1	87-A70-046-010		VIB,XTAL 16.934MHZ
SWITCH C.B			
CN201	87-A60-946-010		CONN,4P H 6232
CN207	87-A60-081-010		CONN,06P H 9604S-06F
FC201	8Z-ZG4-613-110		FF-CABLE,4P 1.0 190MM
SW202	87-A90-967-010		SW,PUSH 3-2-1 MPU20160MLB0
SENSOR C.B			
CN202	87-A60-946-010		CONN,4P H 6232
Q202	87-026-674-010		P-TR,PT4850F
Q212	87-026-674-010		P-TR,PT4850F
TRAY C.B			
CN208	87-A60-083-010		CONN,04P H 9604S-04F
SW211	87-A91-333-010		SW,PUSH 1-1-1 MPU11570
SW212	87-A91-333-010		SW,PUSH 1-1-1 MPU11570
SW213	87-A91-333-010		SW,PUSH 1-1-1 MPU11570
LED C.B			
D321	87-070-319-010		LED,GL4800 RED
DRIVE C.B			
CON1	87-A60-086-010		CONN,06P H 6216
M20	87-045-358-010		MOT,RF-310TA 43
M21	87-045-356-010		MOT,RF-310TA 30
SW1	87-A90-042-010		SW,LEAF MSW 17310 MVPO

○チップ抵抗部品コード／CHIP RESISTOR PART CODE

チップ抵抗部品コードの成り立ち
Chip Resistor Part Coding



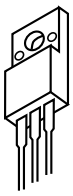
チップ抵抗
Chip resistor

容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法／Dimensions (mm) 外形／Form	L	W	t	抵抗コード Resistor Code ：A
1/16W	1005	± 5%	CJ		1.0	0.5	0.35	104
1/16W	1608	± 5%	CJ		1.6	0.8	0.45	108
1/10W	2125	± 5%	CJ		2	1.25	0.45	118
1/8W	3216	± 5%	CJ		3.2	1.6	0.55	128

TRANSISTOR ILLUSTRATION

E C B

CC5551
CSA1585
CSB1058
CSC4115
KTA1266
KTC3198



B C E

2SB1370
2SB1625
2SD2494

E C B

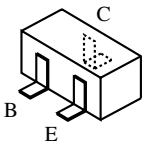
2SA1318

E C B

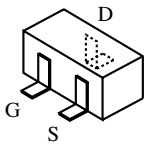
CSD655

E C B

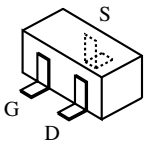
2SA933



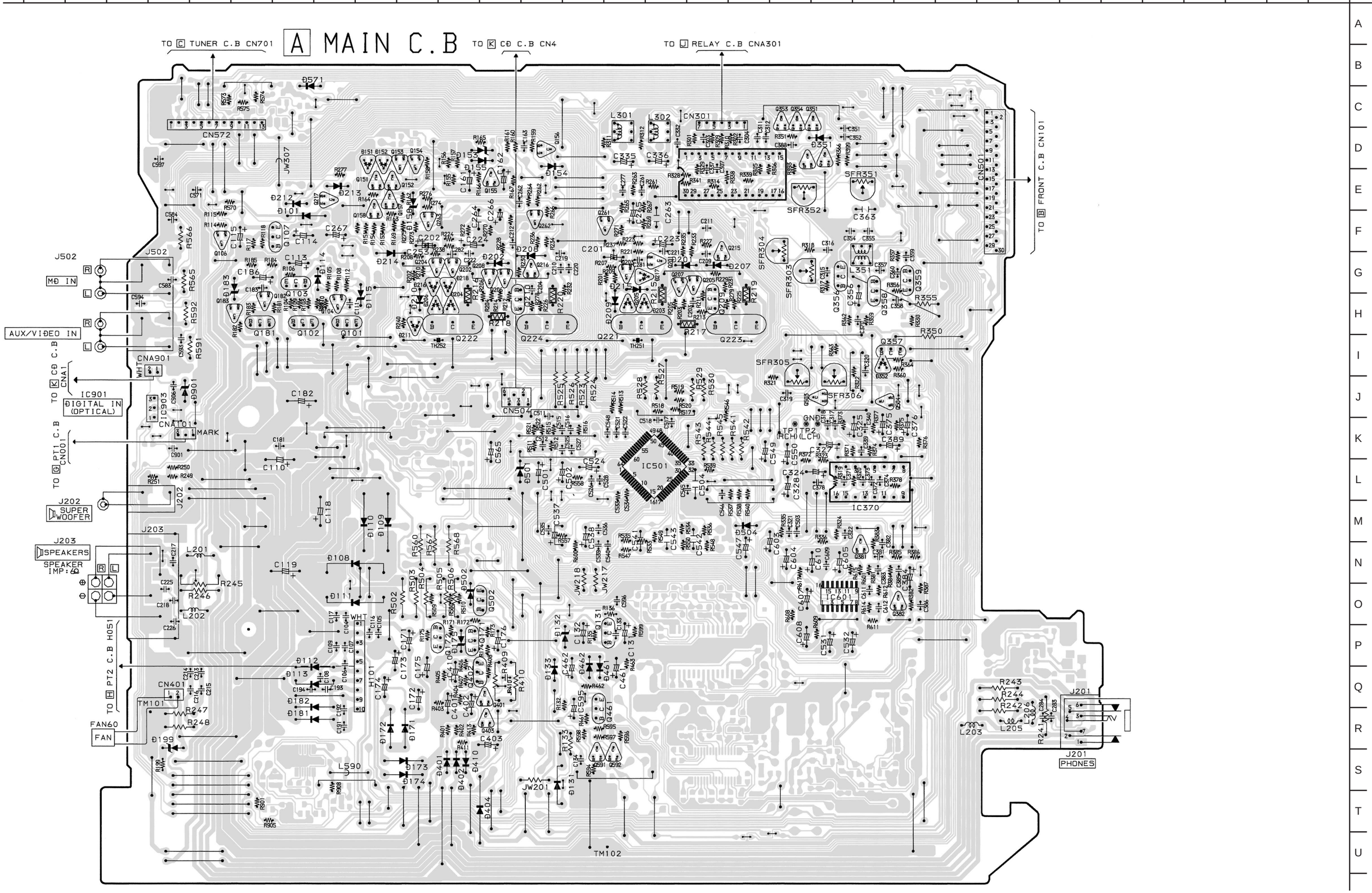
2SA1235
2SC2712
2SC2714
2SC3052
2SD1306
CMBT5401
CMBT5551
CSD1306E
DTA123JK
DTA143EK
DTC114EK
DTC114TK
DTC124XK
KTA1298
RT1N141C
RT1P141C
RT1P144C
RT1P441C



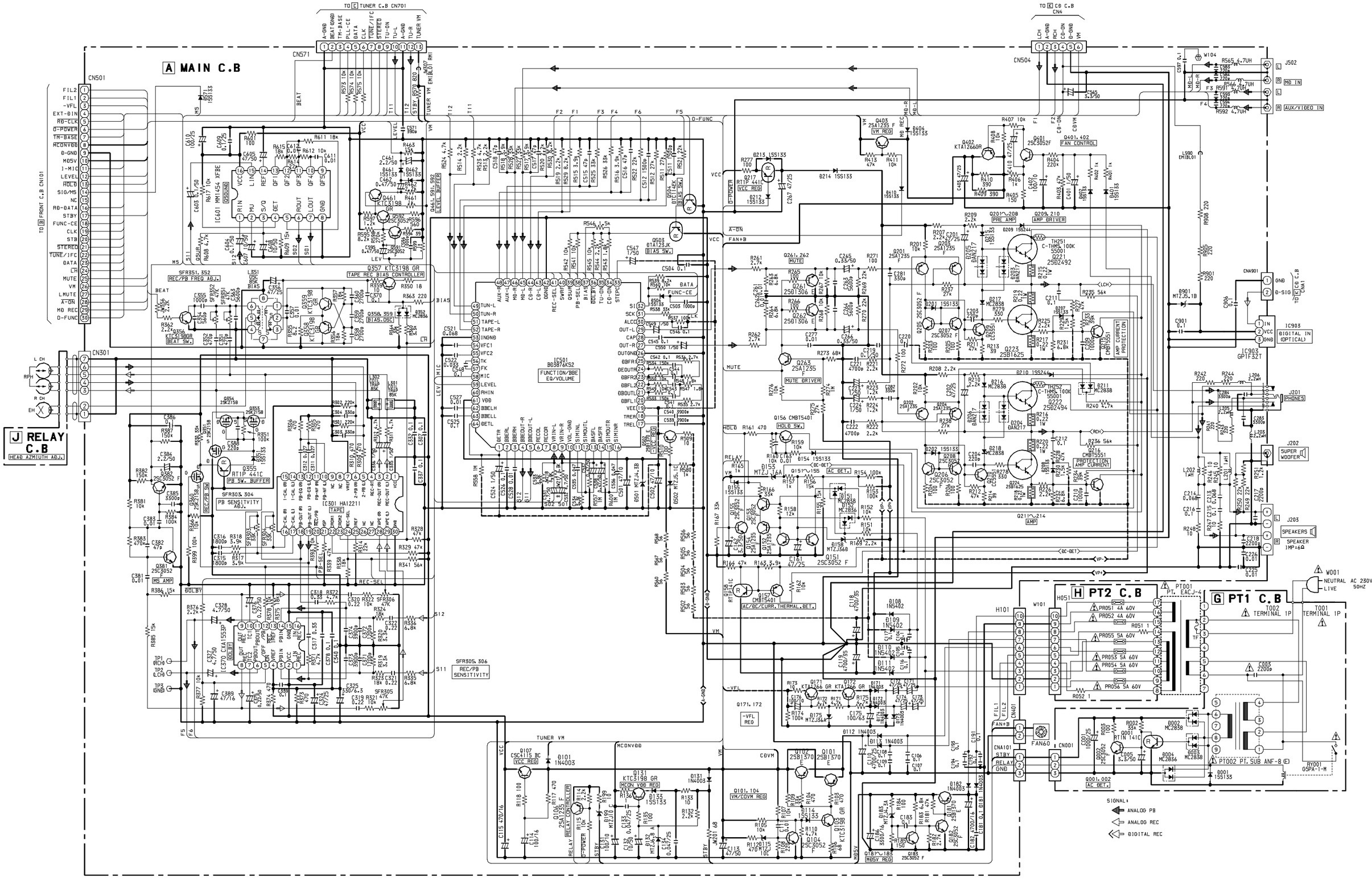
2SK2158

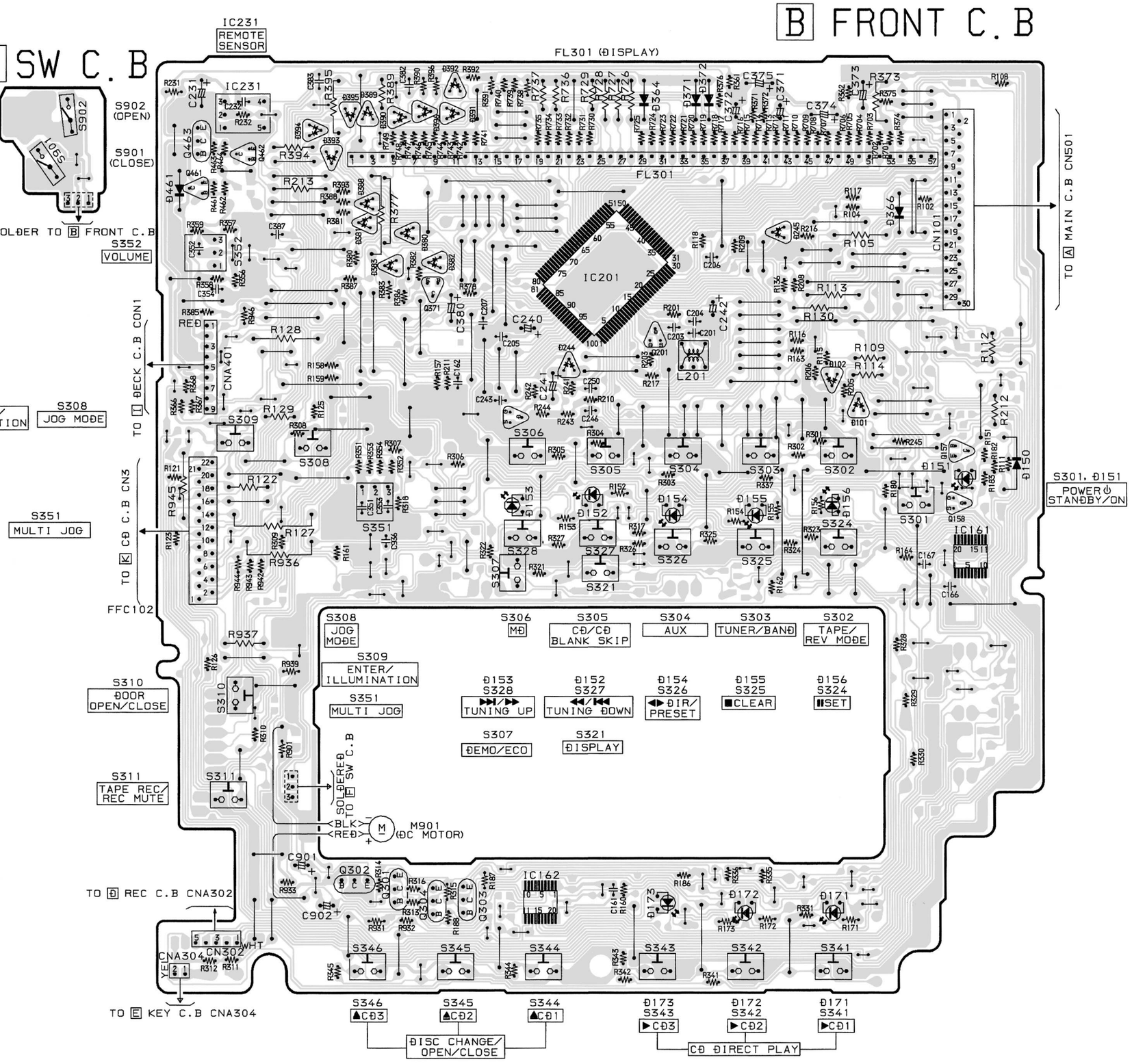


2SK543

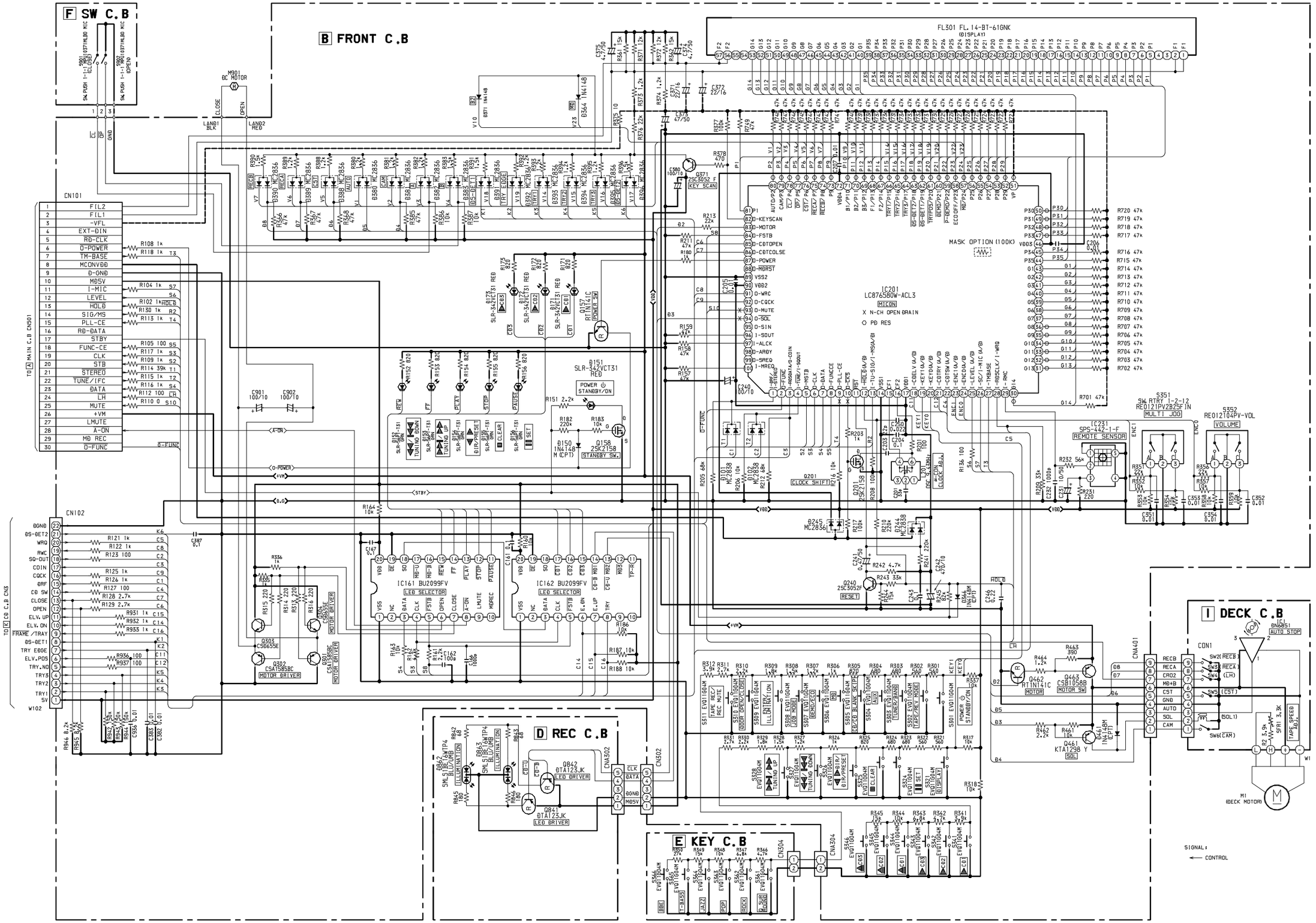

A MAIN C.B
TO C TUNER C.B CN701
TO K CD C.B CN4
TO J RELAY C.B CNA301
TO B FRONT C.B CN101
J502
MD IN
AUX/VIDEO IN
CNA901
TO K CD C.B CNA1
IC901
DIGITAL IN (OPTICAL)
TO PT1 C.B CN001
J202
SUPER WOOFER
J203
SPEAKERS
SPEAKER IMP: 6Ω
TO PT2 C.B H051
FAN60
FAN
TM101
TM102
CN572
CN301
CN501
CN504
CN401
IC501
IC370
IC601
SFR351
SFR352
SFR304
SFR303
SFR305
SFR306
J201
PHONES

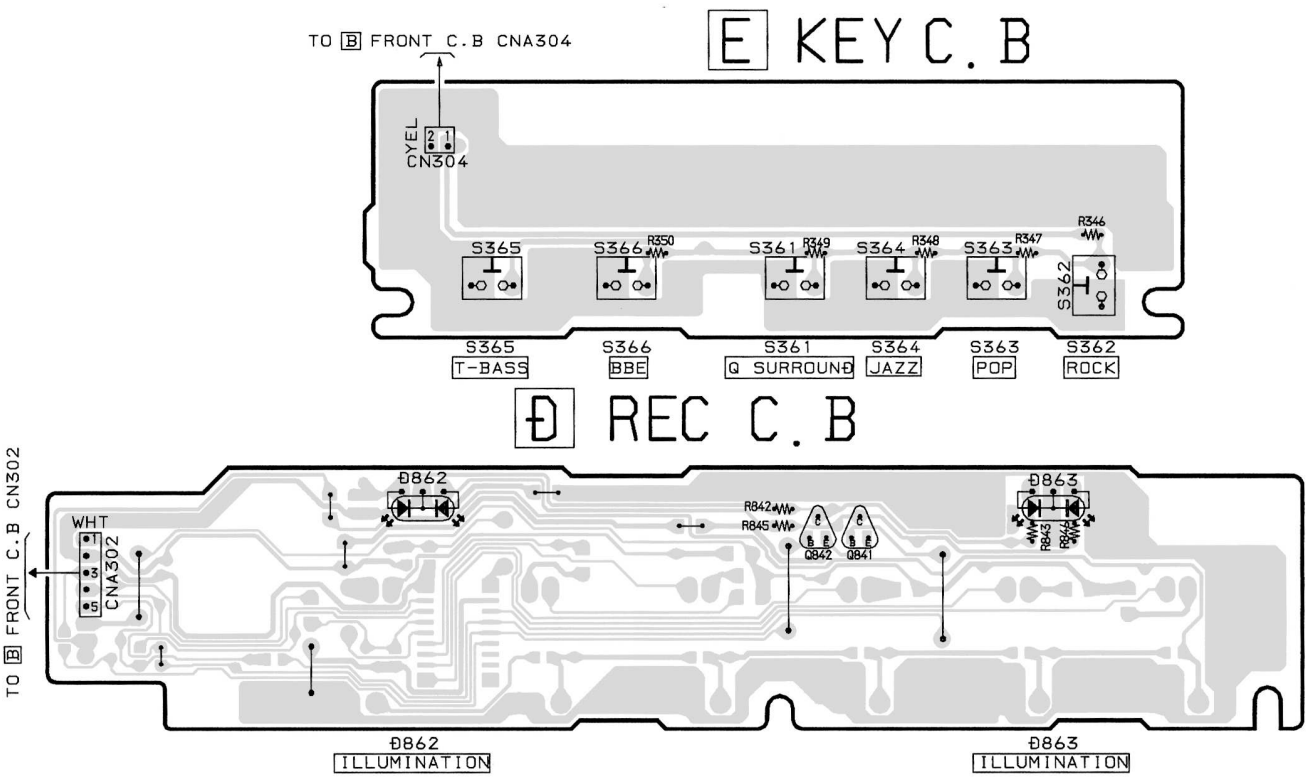
SCHEMATIC DIAGRAM – 1 (MAIN / PT1 / PT2 / RELAY)

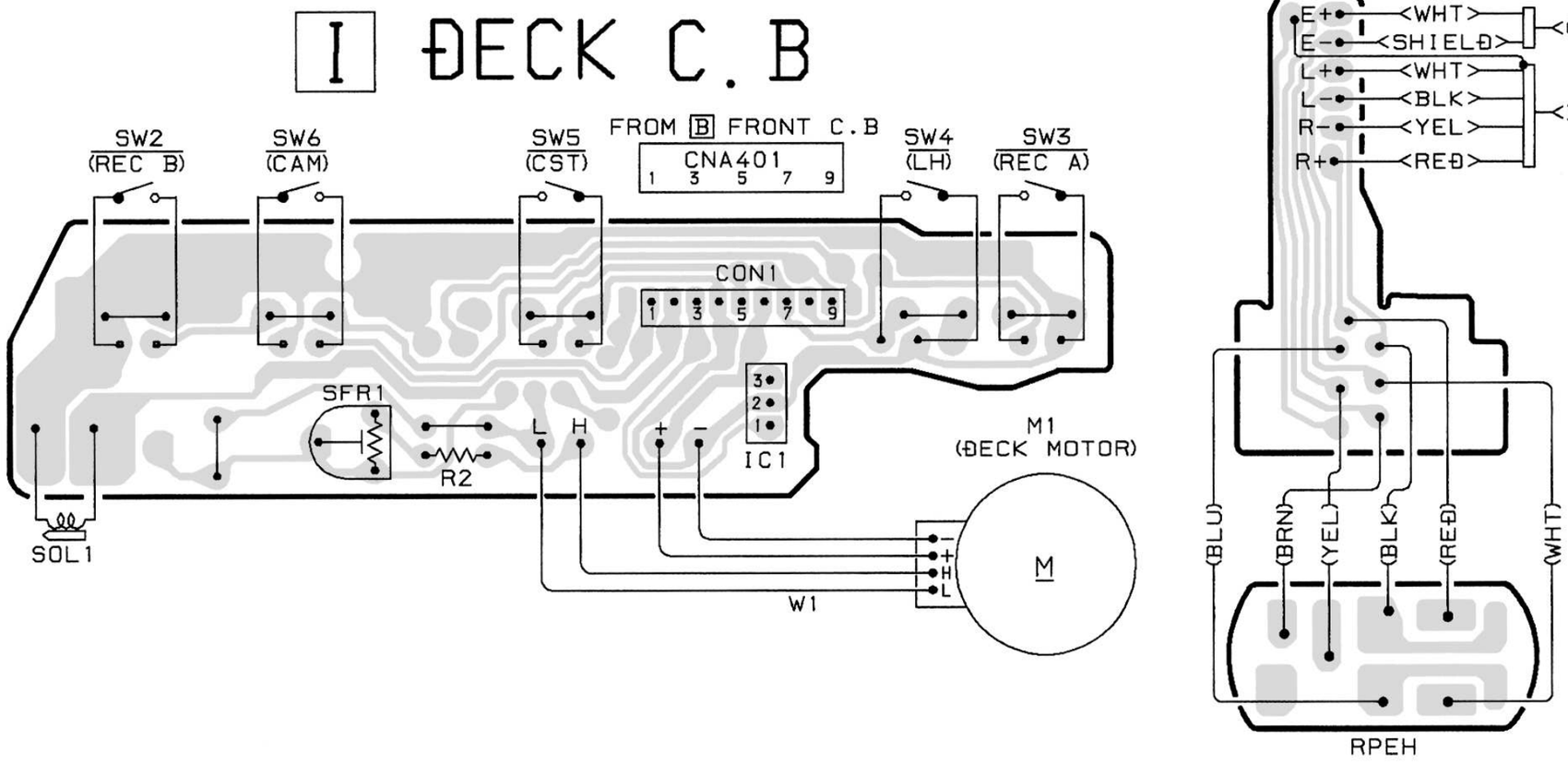



F SW C.B
B FRONT C.B
IC231
REMOTE SENSOR
FL301 (DISPLAY)
S902 (OPEN)
S901 (CLOSE)
SOLDER TO B FRONT C.B
S352 VOLUME
TO A MAIN C.B CN501
TO D DECK C.B CON1
S309 ENTER/ ILLUMINATION
S308 JOG MODE
S351 MULTI JOG
TO K CD C.B CN3
FFC102
S301, D151 POWER ⏻ STANDBY/ON
S310 DOOR OPEN/CLOSE
S311 TAPE REC/ REC MUTE
S306 MD
S305 CD/CD BLANK SKIP
S304 AUX
S303 TUNER/BAND
S302 TAPE/ REV MODE
S328 ⏭/⏩ TUNING UP
S327 ⏪/⏮ TUNING DOWN
S326 ◀▶ DIR/ PRESET
S325 ■CLEAR
S324 ⏸SET
S307 DEMO/ECO
S321 DISPLAY
SOLDERED TO E SW C.B
M901 (DC MOTOR)
TO D REC C.B CNA302
TO E KEY C.B CNA304
S346 ▲CD3
S345 ▲CD2
S344 ▲CD1
DISC CHANGE/ OPEN/CLOSE
S343 ▶CD3
S342 ▶CD2
S341 ▶CD1
CD DIRECT PLAY

SCHEMATIC DIAGRAM – 2 (FRONT / REC / SW / DECK)



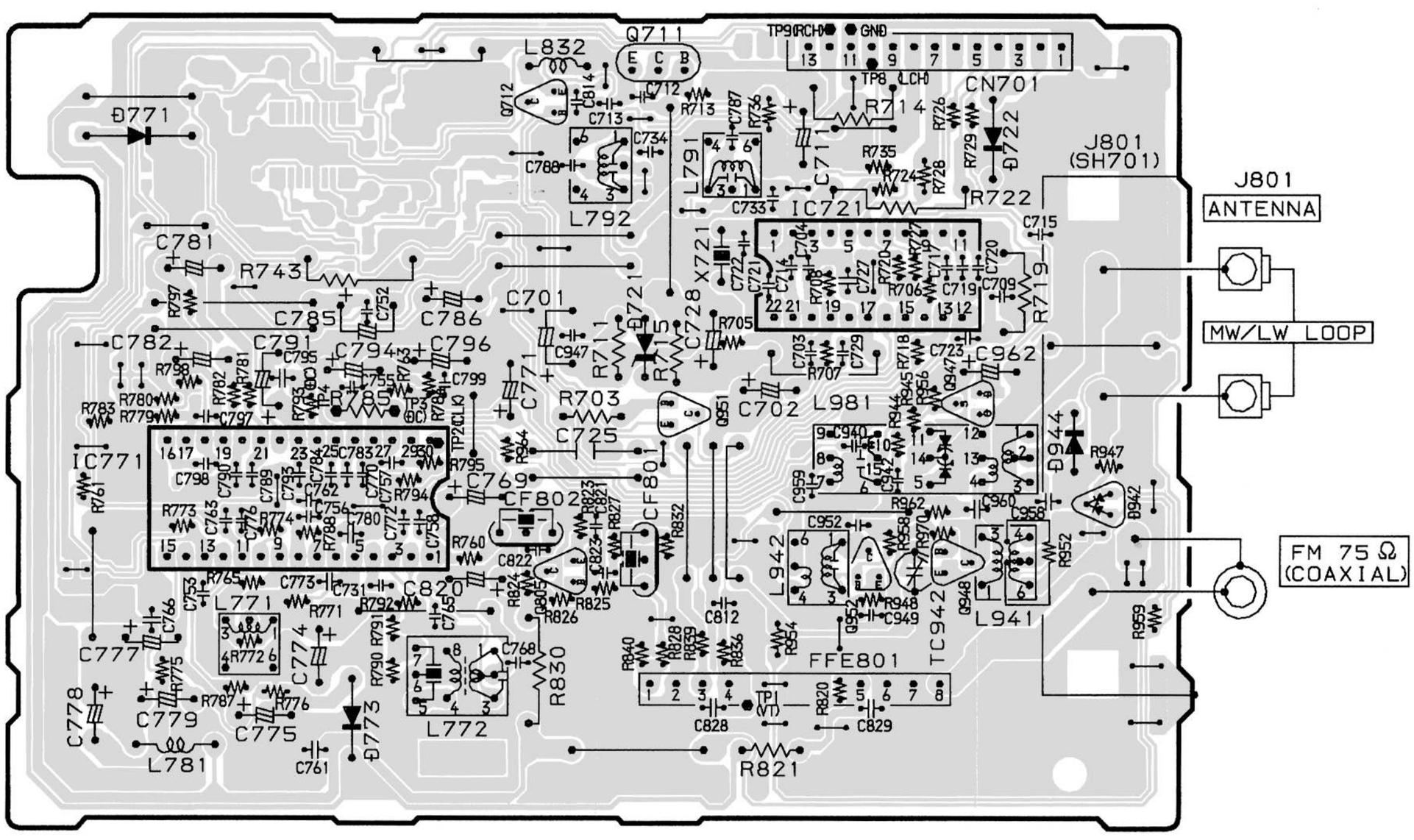

E KEY C.B
TO B FRONT C.B CNA304
YEL
CN304
S365
S366
R350
S361
R349
S364
R348
S363
R347
R346
S362
S365 T-BASS
S366 BBE
S361 Q SURROUND
S364 JAZZ
S363 POP
S362 ROCK
Đ REC C.B
TO B FRONT C.B CN302
WHT
CNA302
Đ862
Đ863
R842
R845
Q842
Q841
R843
R844
Đ862 ILLUMINATION
Đ863 ILLUMINATION

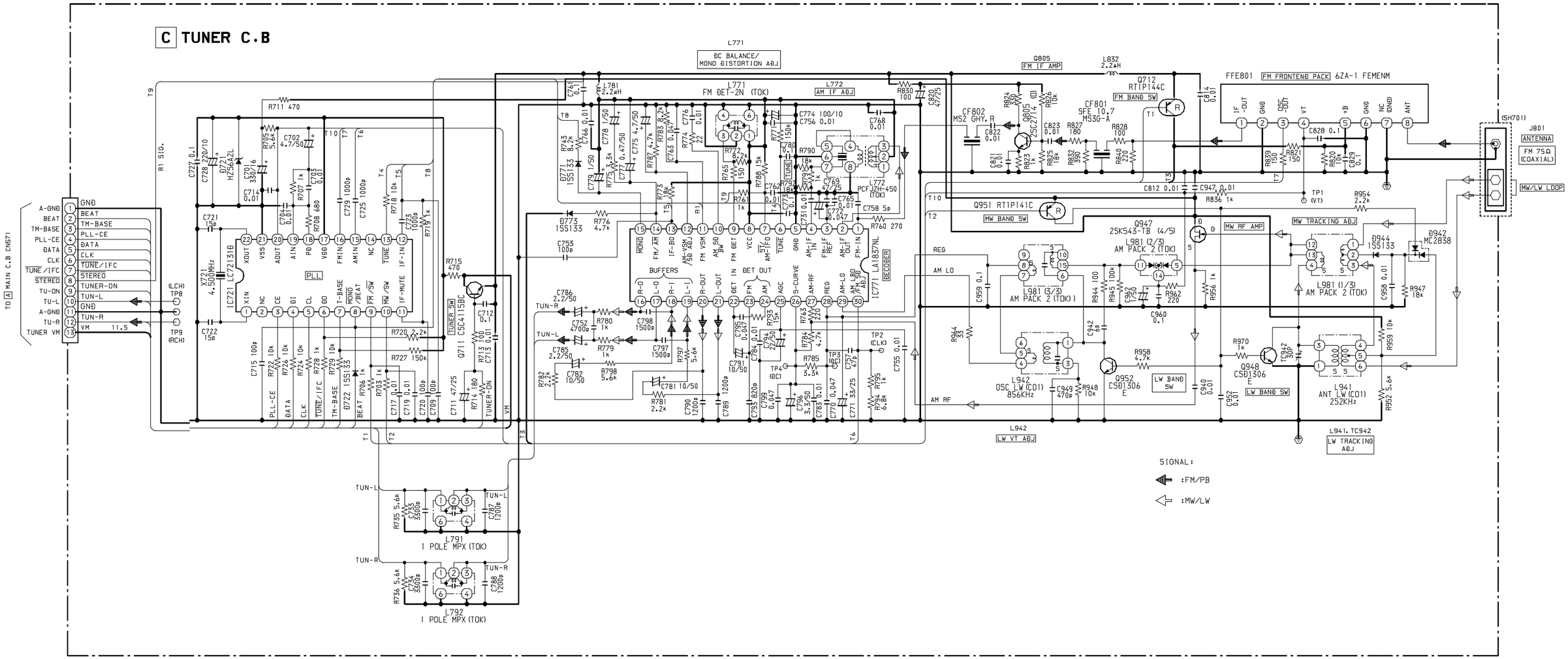

I DECK C.B
SW2 (REC B)
SW6 (CAM)
SW5 (CST)
FROM B FRONT C.B
CNA401
1 3 5 7 9
SW4 (LH)
SW3 (REC A)
CON1
1 3 5 7 9
SFR1
R2
L H
+ −
IC1
3
2
1
M1
(DECK MOTOR)
SOL1
M
W1
E+ WHT
E− SHIELD
L+ WHT
L− BLK
R− YEL
R+ RED
GRY
BLK
SHIELD
WHT
RED
YEL
WHT
BLK
CNA301
1
3
5
7
TO A MAIN C.B
CN301
J RELAY C.B
BLU
BRN
YEL
BLK
RED
WHT
RPEH

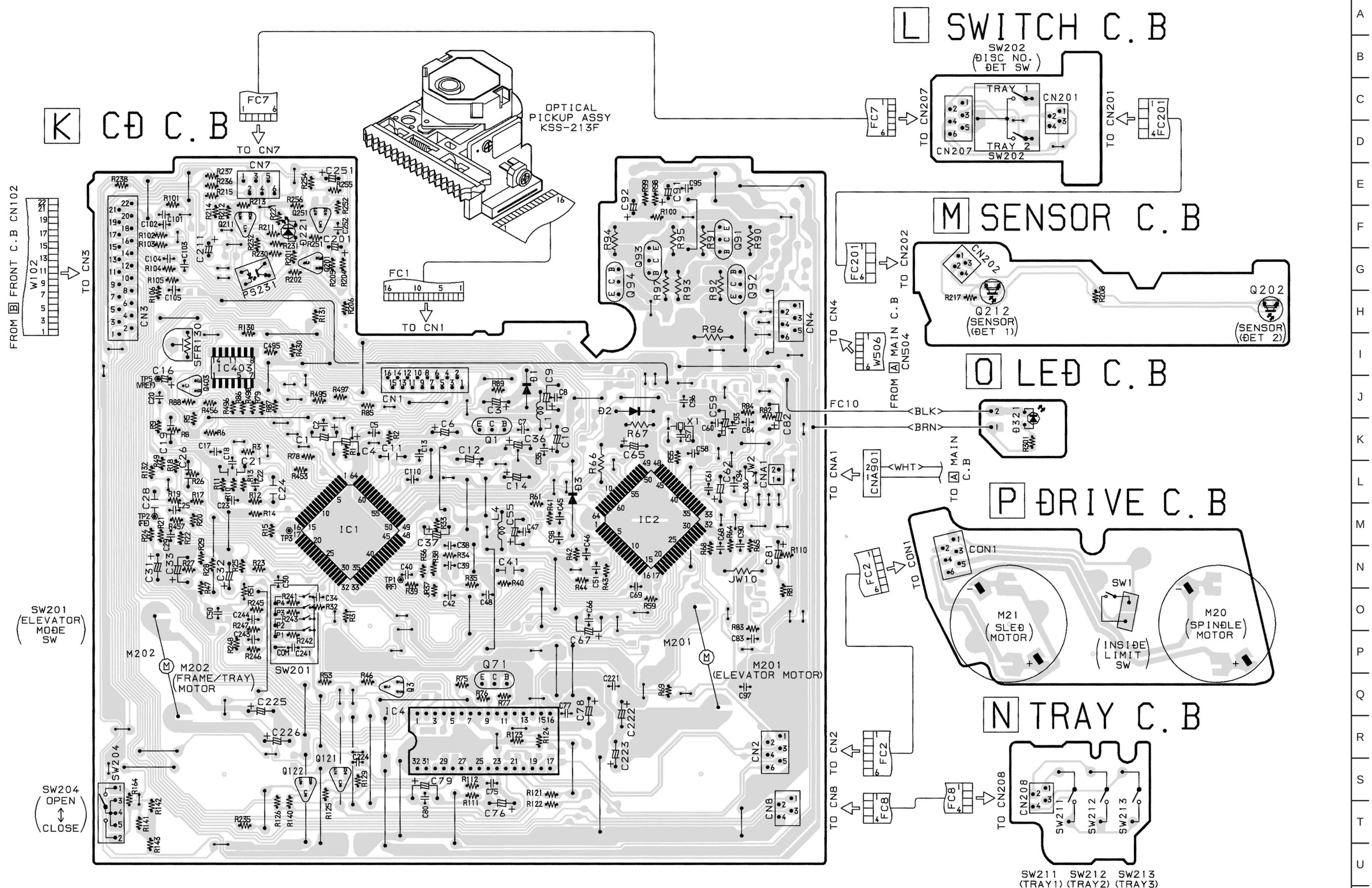
C TUNER C.B

TO A MAIN C.B CN571

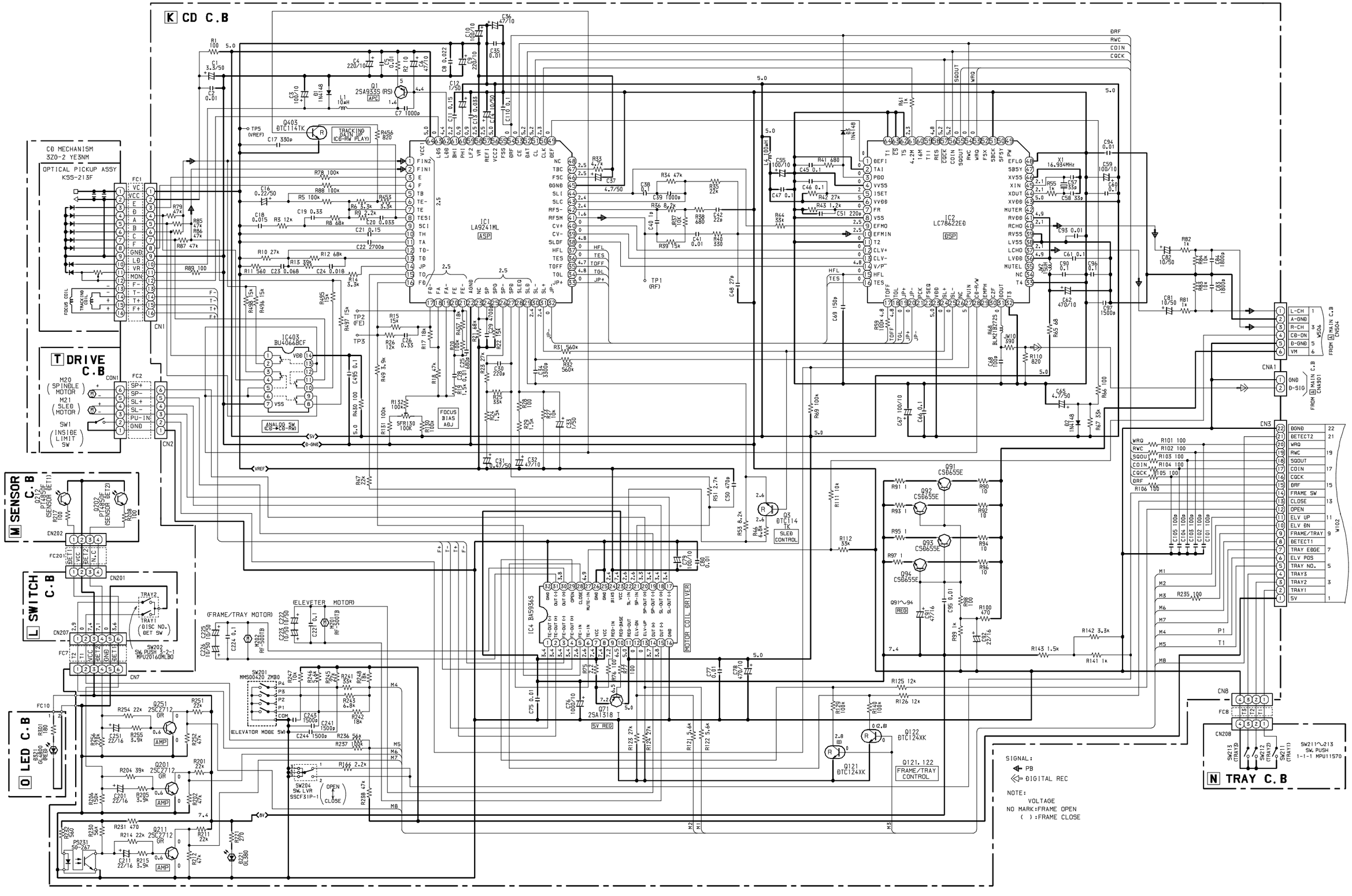
13 11 9 7 5 3 1

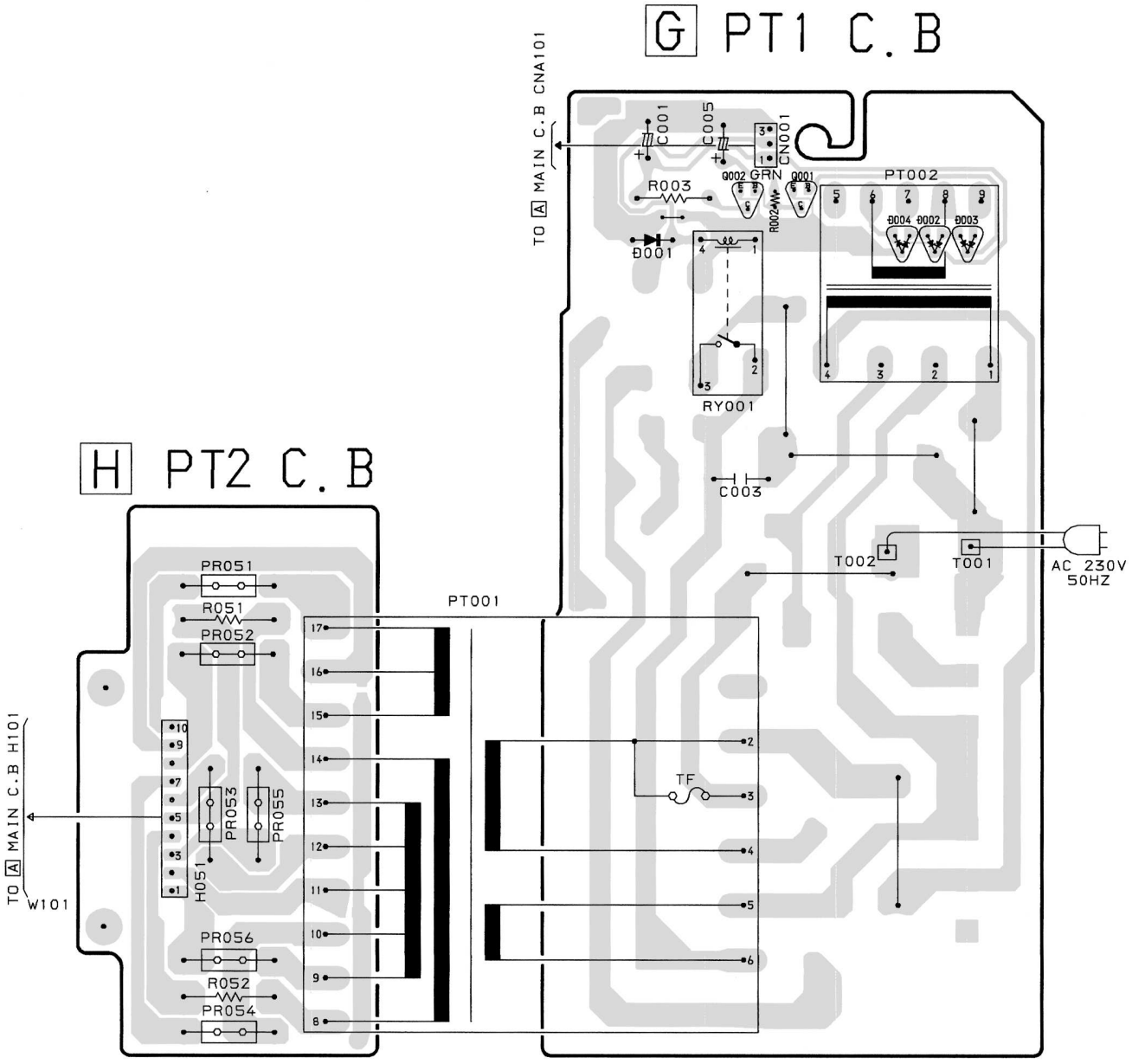



C TUNER C.B
TO A MAIN C.B CN571
A-GND
BEAT
TM-BASE
PLL-CE
DATA
CLK
TUNE/IFC
STEREO
TU-ON
TU-L
A-GND
TU-R
TUNER VM
GND
TUNER-ON
TUN-L
TUN-R
VM
11.5
(LCH) TP8
TP9 (RCH)
PLL
IC721 LC72131D
X721 4.500MHz
R1 SIG.
L771
DC BALANCE/ MONO DISTORTION ADJ
L771 FM DET-2N (TOK)
L772 AM IF ADJ
L772 PCFJ2H-450 (TOK)
IC771 LA1837NL DECODER
BUFFERS
Q805 FM IF AMP
Q712 RT1P144C FM BAND SW
FFE801 FM FRONTEND PACK 6ZA-1 FEMENM
CF802 MS2 GHY, R
CF801 SFE 10.7 MS3G-A
Q951 RT1P141C MW BAND SW
Q947 2SK543-TB (4/5) MW RF AMP
MW TRACKING ADJ
L981 (2/3) AM PACK 2 (TOK)
L981 (3/3) AM PACK 2 (TOK)
L981 (1/3) AM PACK 2 (TOK)
D942 MC2838
D944 1SS133
REG
AM LO
AM RF
L942 OSC LW (CO1) 856KHz
L942 LW VT ADJ
Q952 C5D1306 E
LW BAND SW
Q948 C5D1306 E
L941 ANT LW (CO1) 252KHz
L941, TC942 LW TRACKING ADJ
TP1 (VT)
TP2 (CLK)
TP3 (DET)
TP4 (DC)
(SH701)
J801 ANTENNA
FM 75Ω (COAXIAL)
MW/LW LOOP
SIGNAL:
:FM/PB
:MW/LW
L791 1 POLE MPX (TOK)
L792 1 POLE MPX (TOK)


K CÐ C.B
L SWITCH C.B
M SENSOR C.B
O LEÐ C.B
P ÐRIVE C.B
N TRAY C.B
OPTICAL PICKUP ASSY KSS-213F
FROM B FRONT C.B CN102
W102
TO CN3
TO CN7
FC7
TO CN1
FC1
SW202 (ÐISC NO. ÐET SW)
TRAY 1
TRAY 2
CN201
CN207
TO CN207
TO CN201
FC201
CN202
Q212 (SENSOR (ÐET 1))
Q202 (SENSOR (ÐET 2))
TO CN4
TO CN202
FROM A MAIN C.B CN504
W506
FC10
<BLK>
<BRN>
Ð321
R301
TO CNA1
CNA901
<WHT>
TO A MAIN C.B
W2
JW10
CON1
TO CON1
FC2
M21 (SLEÐ MOTOR)
SW1
(INSIÐE LIMIT SW)
M20 (SPINÐLE MOTOR)
TO CN2
TO CN8
FC8
CN208
TO CN208
SW211
SW212
SW213
SW211 SW212 SW213
(TRAY1) (TRAY2) (TRAY3)
SW201 (ELEVATOR MOÐE SW)
SW204 (OPEN ↔ CLOSE)
M202 (FRAME/TRAY) MOTOR
M201 (ELEVATOR MOTOR)
IC1
IC2
IC4
IC403
PS231
SW201
SW204
CN1
CN2
CN3
CN4
CN8

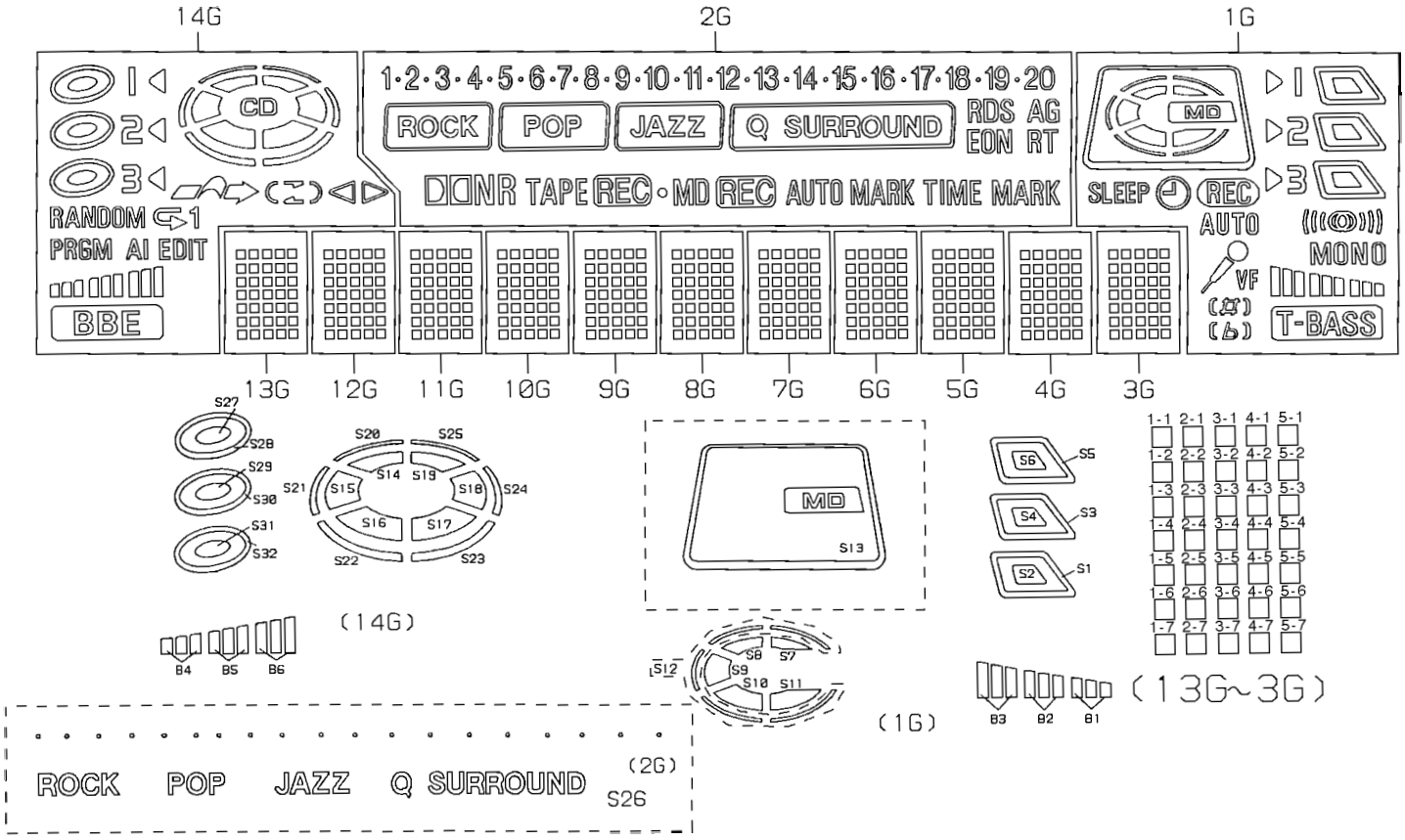
SCHEMATIC DIAGRAM – 4 (CD / SWITCH / SENSOR / TRAY / LED / DRIVE)




G PT1 C.B
TO A MAIN C.B CNA101
C001
C005
CN001
R003
D001
Q002 GRN
Q001
R002
PT002
D004 D002 D003
RY001
C003
T002
T001
AC 230V
50HZ
H PT2 C.B
PR051
R051
PR052
PT001
TO A MAIN C.B H101
W101
H051
PR053
PR055
TF
PR056
R052
PR054

FL (14–BT–61GNK) GRID ASSIGNMENT / ANODE CONNECTION / PIN CONNECTION

GRID ASSIGNMENT



ANODE CONNECTION

	14G	13G~3G	2G	1G
P1	▷	1-1	TIME MARK	S13
P2	◁	2-1	AUTO MARK	S12
P3	)	3-1	MD REC	S11
P4	⇐	4-1	○	S10
P5	(	5-1	TAPE REC	S9
P6	⇔	1-2	DOLBY NR	S8
P7	EDIT	2-2	RT	S7
P8	AI	3-2	EON	◴
P9	1	4-2	AG	SLEEP
P10	⇨	5-2	RDS	REC
P11	PRGM	1-3	▭ (Q SURROUND)	▷ (1)
P12	RANDOM	2-3	▭ (JAZZ)	▷ (2)
P13	B6	3-3	▭ (POP)	▷ (3)
P14	B5	4-3	▭ (ROCK)	1 2 3
P15	B4	5-3	S26	S6
P16	BBE	1-4	20	S5
P17	CD	2-4	19	S4
P18	S20, S23	3-4	18	S3
P19	S14, S17	4-4	17	S2
P20	S21, S24	5-4	16	S1
P21	S15, S18	1-5	15	AUTO
P22	S22, S25	2-5	14	VF
P23	S16, S19	3-5	13	((◎))
P24	(3)◁	4-5	12	MONO
P25	(2)◁	5-5	11	(♫)
P26	(1)◁	1-6	10	(♭)
P27	1 2 3	2-6	9	-
P28	S32	3-6	8	-
P29	S31	4-6	7	-
P30	S30	5-6	6	-
P31	S29	1-7	5	-
P32	S28	2-7	4	B3
P33	S27	3-7	3	B2
P34	-	4-7	2	B1
P35	-	5-7	1	T-BASS

PIN CONNECTION

PIN NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
CONNECTION	F1	F1	NP	NP	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19	P20	P21	P22	P23

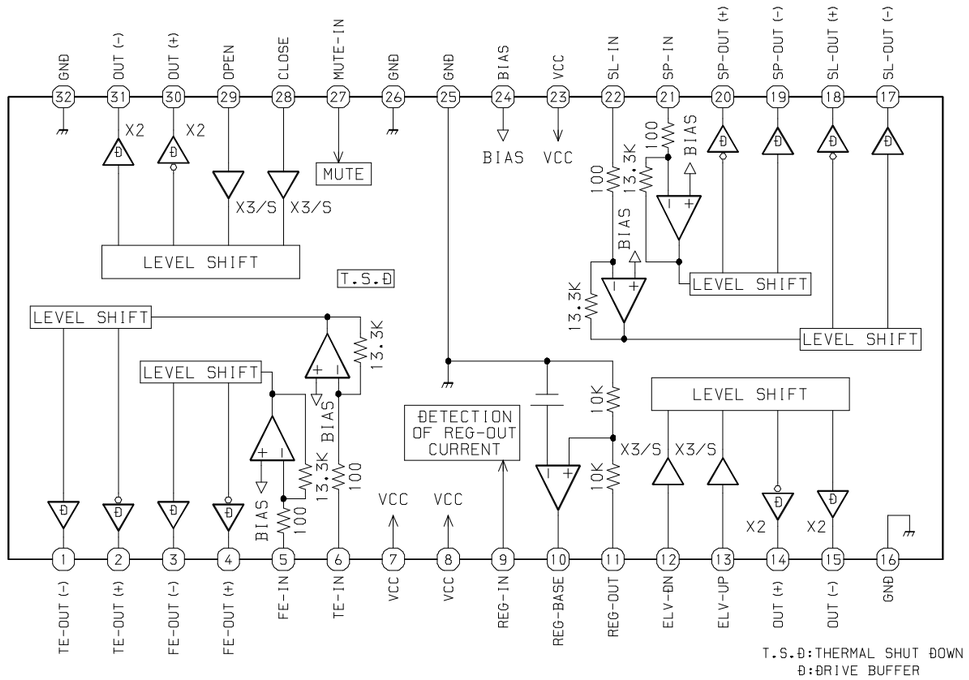
PIN NO.	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54
CONNECTION	P24	P25	P26	P27	P28	P29	P30	P31	P32	P33	P34	P35	1G	2G	3G	4G	5G	6G	7G	8G	9G	10G	11G	12G	13G	14G	NP

PIN NO.	55	56	57
CONNECTION	NP	F2	F2

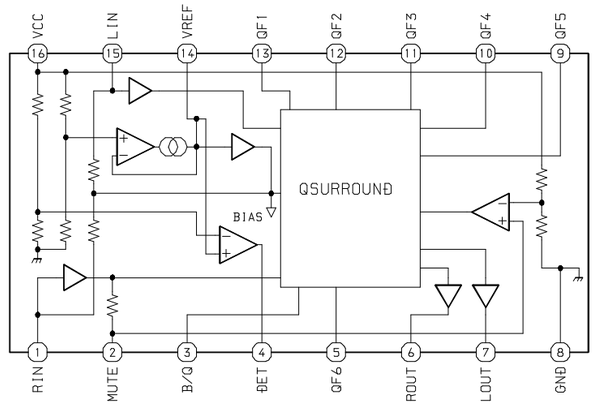
NOTE: 1) F1,F2 ---------- Filament
2) NP ---------- No pin
3) 1G ~ 14G ----- Grid

IC BLOCK DIAGRAM

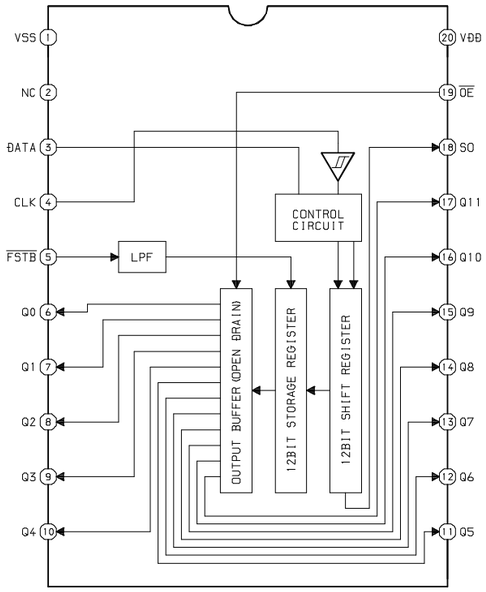
IC, BA5936S



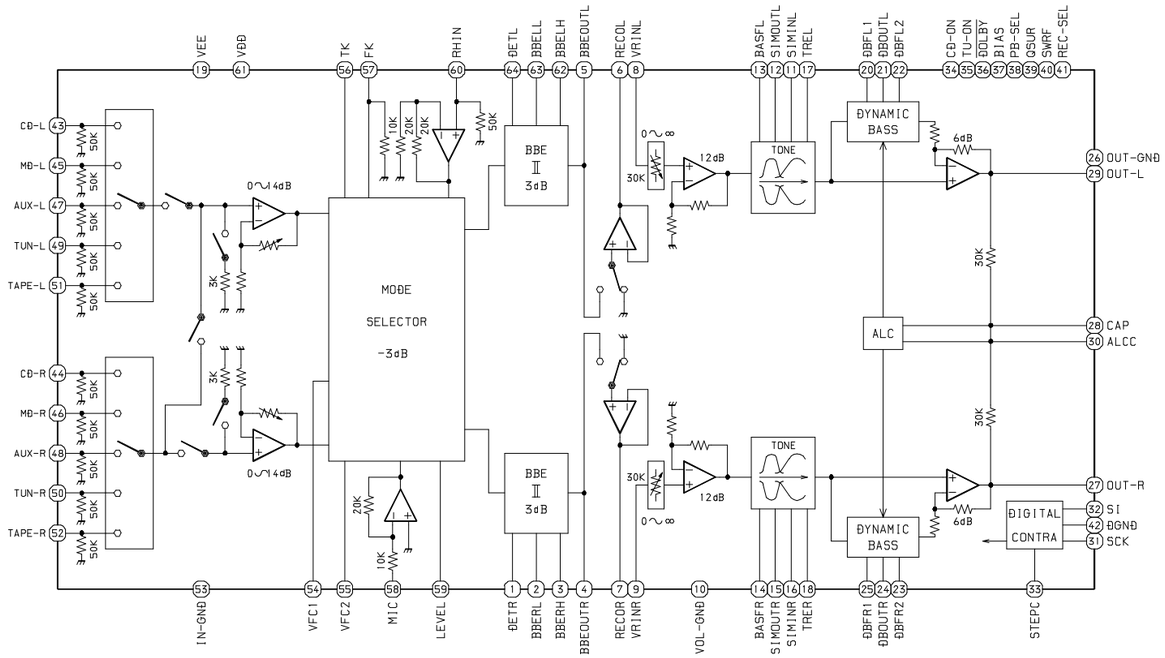
IC, MM1554XFBE



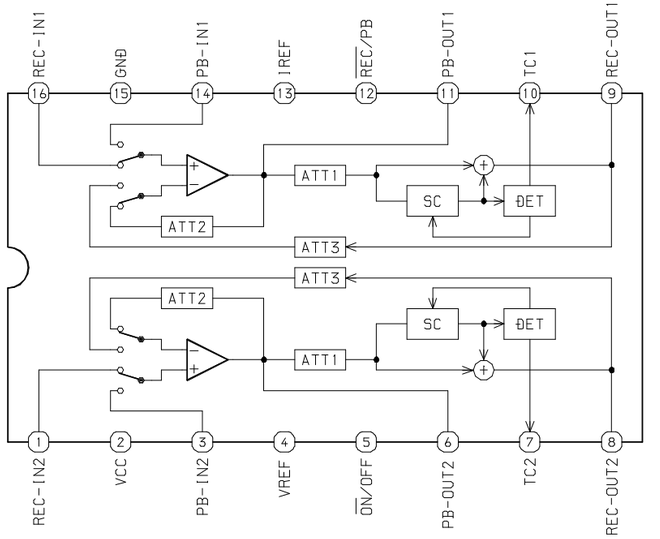
IC, BU2099FV



IC, BD3876KS2

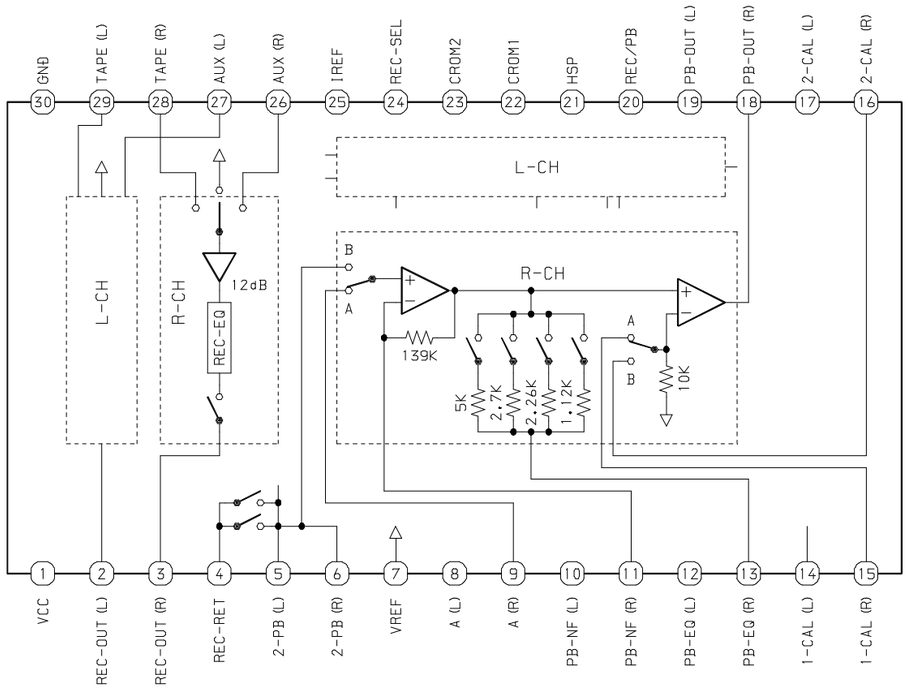


IC, CXA1553P

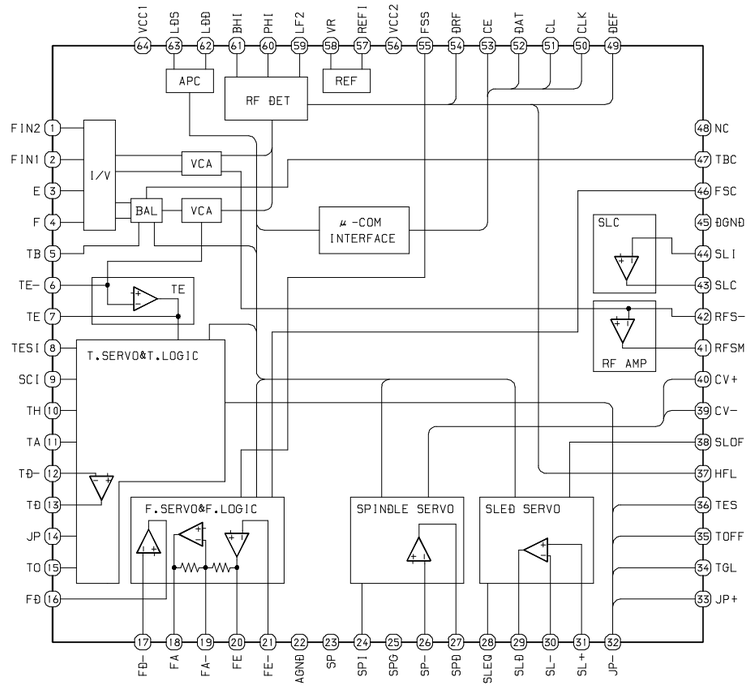


ATT:ATTENUATOR
SC:SIĐE CHAIN
ĐET:ĐETECTOR

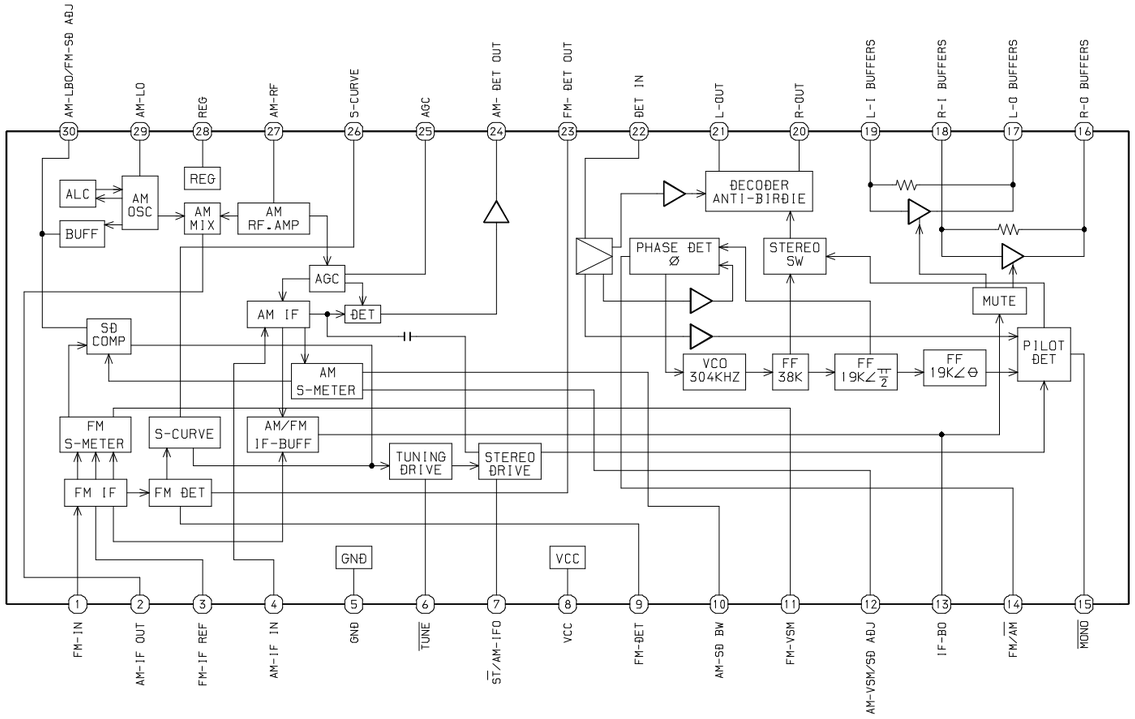
IC, HA12211



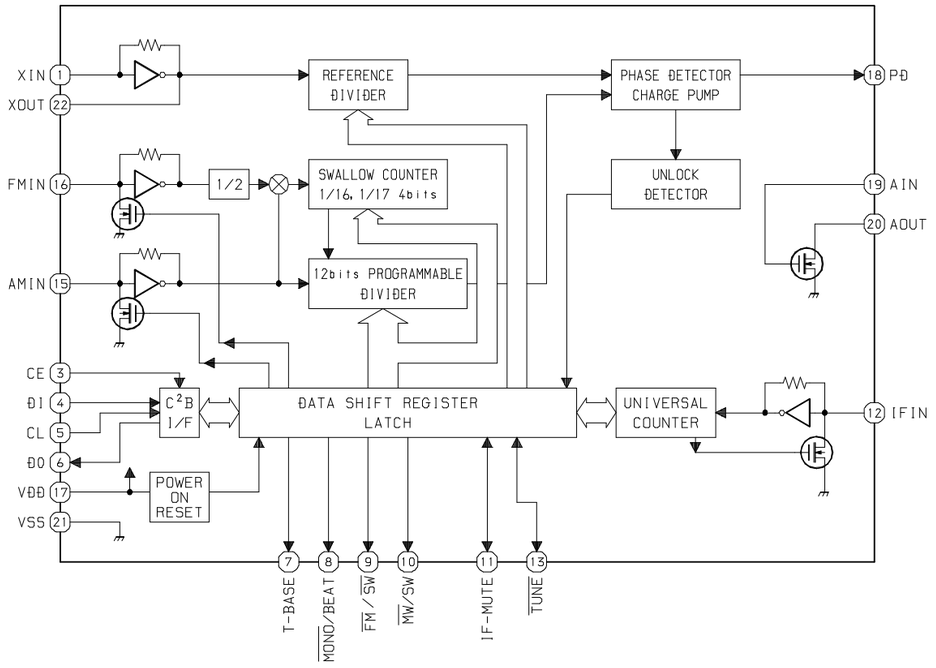
IC, LA9241ML



IC, LA1837NL



IC, LC72131D



IC DESCRIPTION

IC, LC876580W

Pin No.	Pin Name	I/O	Description
1	I-$\overline{\text{STEREO}}$ / I-DRF	I	During TUNER function, TUNER stereo signal input / During CD function, CD ASP IC DRF data input.
2	O-FUNC	O	Function IC expand port pull up VCC switch output.
3	I-RDS-DATA / O-COIN	I/O	During TUNER function, RDS serial data input (not used) / During CD function, CD DSP IC command in data output.
4	I-TUDO / I-SQOUT	I	During TUNER function, TUNER IF count serial data input / During CD function, CD DSP IC sub-code data input.
5	O-MSTB	O	Main IC control serial strobe output.
6	O-CLK	O	IC control serial clock output.
7	O-DATA	O	IC control serial data output.
8	O-FUNC-CE	O	Function IC control chip enable output.
9	O-PLL-CE	O	TUNER PLL IC control chip enable output.
10	O-$\overline{\text{CKS}}$	O	Micom clock chift control output. "L" = Shift up (Initial "H").
11	$\overline{\text{RESET}}$	I	Reset input.
12	I-$\overline{\text{HOLD}}$	I	Power failure overcharge detection input.
13	I-TU-SIG / I-$\overline{\text{MS}}$	I	During TUNER function, TUNER signal level input / During TAPE function, music sensor detection input.
14	VSS1	–	Ground.
15	CF1	I	Oscillator input for system clock (9.43MHz)
16	CF2	O	Oscillator output for system clock (9.43MHz).
17	VDD1	–	Power supply. Basis on A/D input level. Back up VDD.
18	I-CDELV	I	CD evelater position detection input.
19 ~ 20	I-KEY1 ~ I-KEY0	I	Tact key A/D level input.
21	I-CDTRAY	I	CD tray position detection input.
22	I-CDTSW	I	CD mecha switch detetion input.
23	I-ENC1	I	Waveform input for jog rotary encoder.
24	I-ENC0	I	Waveform input for volume rotary encoder.
25	I-LEVEL	I	Audio signal level detection input (For level bar, CD blank skip).
26	I-SC / I-MIC	I	CD serial clock input / MIC level detection input. (Not used)
27	I-TMBASE	I	Reference signal input for clock.
28	I-RDS-CLK I-WRQ	I	During TUNER function, RDS serial clock input (not used) / During CD function, CD DSP IC WRQ input.
29	I-RMC	I	Remote control signal input.
30 ~ 43	G14 ~ G01	O	FL grid output.
44 ~ 45	P35 ~ P334	O	FL segment output.
46	VDD3	–	Power supply. Connected to VDD4.
47 ~ 50	P33 ~ P30	O	FL segment output.
51	VP	–	Power supply for FL input.
52 ~ 56	P29 ~ P25	O	FL segment output.
57	P24 / $\overline{\text{MD}}$	O/I	FL segment output / No MD setting switch input (not used).
58	P23 / ECO OFF	O/I	FL segment output / ECO off setting switch input (not used).

Pin No.	Pin Name	I/O	Description
59	P22 / P-DEMO	O/I	FL segment output / DEMO with panel setting switch input (not used).
60	P21 / $\overline{\text{DEMO}}$	O/I	FL segment ouptut / No DEMO (initial clock) setting switch input (not used).
61	P20 / $\overline{\text{TRAYPOS}}$	O/I	FL segment output / Tray position switching input.
62	P19 / $\overline{\text{DS-DET1}}$	O/I	FL segment output / CD DSIC detection switch 1 input.
63	P18 / $\overline{\text{DS-DET2}}$	O/I	FL segment output / CD DISC detection switch 2 input.
64	P17 / $\overline{\text{TRAY3}}$	O/I	FL segment output / CD tray 3 switching input.
65	P16 / $\overline{\text{TRAY2}}$	O/I	FL segment output / CD tray 2 switching input.
66	P15 / $\overline{\text{TRAY1}}$	O/I	FL segment output / CD tray 1 switching input.
67	P14 / F2	O/I	FL segment output / Feature select switch 2 input (not used).
68	P13 / F1	O/I	FL segment output / Feature select switch 1 input (not used).
69	P12 / B3	O/I	FL segment output / TUNER band switch 3 input (not used).
70	P11 / B2	O/I	FL segment output / TUNER band switch 2 input (not used).
71	P10 / B1	O/I	FL segment output / TUNER band switch 1 input (not used).
72	VDD4	–	Power supply. Connected to VDD3.
73	P9	O	FL segment output.
74	P8 / $\overline{\text{RECB}}$	O/I	FL segment output / Deck side B recording able or disable detection switch input.
75	P7 / $\overline{\text{RECA}}$	O/I	FL segment output / Deck side A recording able or disable detection switch input.
76	P6 / $\overline{\text{CST}}$	O/I	FL segment output / Deck cassette existence detection switch input.
77	P5 / $\overline{\text{OP}}$	O/I	FL segment output / MD door open switch detection input.
78	P4 / $\overline{\text{CL}}$	O/I	FL segment output / MD dooe close switch detection input.
79	P3 / $\overline{\text{CAM}}$	O/I	FL segment output / Deck cam-operation detection swutch input.
80	P2 / AUTO	O/I	FL segment output / Deck reel-rotation detection switch input.
81	P1	O	FL segment output.
82	O-KEYSCAN	O	Segment input timing output. "H" = Input timing.
83	O-MOTOR	O	Deck mecha motor control output.
84	O-FSTB	O	Shift register IC control serial strobe output.
85	O-CDTOPEN	O	CD tray control output. "H" = Open.
86	O-CDTCLOSE	O	CD tray control output. "H" = Close.
87	O-POWER	O	System power control output.
88	O-MDRST	O	MD reset output.
89	VSS2	–	Ground.
90	VDD2	–	Power supply. Connected to VDD1.
91	O-RWC	O	CD DSP IC RWC control output.
92	O-CQCK	O	CD DSP IC CQCK control output.
93	O-MUTE	O	Audio signal line mute control output.
94	O-SOL	O	Deck mecha plunger control output.
95	O-SIN	O	MD serial data output.
96	I-SOUT	I	MD serial data input.
97	I-ACLK	I	MD unit latch clock input.
98	ARDY	O	MD unit serial data ready port control output.
99	O-SREQ	O	From MD unit serial data transfer request control output.
100	I-MREQ	I	To MD unit serial data transfer request control input.

IC, LA9241ML

Pin No.	Pin Name	I/O	Description
1	FIN2	I	Connects to the pickup's photo diode; adding this pin to pin FIN1 generates RF signal, and subtracting it generates FE signal.
2	FIN1	I	Connects to the pickup's photo diode.
3	E	I	Connects to the pickup's photo diode; subtracting this pin from pin F generates TE signal.
4	F	I	Connects to the pickup's photo diode.
5	TB	I	Input for DC component of TE signal.
6	TE–	I	Connects to the resistor between this pin and TE pin for setting the gain of TE signal.
7	TE	O	Output for TE signal.
8	TESI	I	Input for TES (Track Error Sense) comparator, TE signal is band-passed and inputted.
9	SCI	I	Input for shock detection.
10	TH	I	For setting tracking gain time constant.
11	TA	O	TA amplifier output pin.
12	TD–	I	For constructing tracking phase compensation constant between TD and VR pins.
13	TD	O	For setting tracking phase compensation.
14	JP	I	For setting the amplifier of tracking jump signal (kick pulse).
15	TO	O	Output for tracking control signal.
16	FD	O	Output for focusing control signal.
17	FD–	I	For constructing focusing phase compensation constant between FD and FA pins.
18	FA	O	For constructing focusing phase compensation constant between FD– and FA– pins.
19	FA–	I	For constructing focusing phase compensation constant between FA and FE pins.
20	FE	O	Output for FE signal.
21	FE–	I	Connects to the gain-setting resistor of FE signal between this pin and FE pin.
22	A-GND	–	GND for analog signals.
23	NC	–	Not used.
24	SP	I	Single end output of CV+ and CV– pin input signal.
25	SPG	I	Connects to the gain-setting resistor during spindle 12cm mode.
26	SP–	I	Connects to spindle phase compensation constant together with SPD pin.
27	SPD	O	Output for spindle control signal.
28	SLEQ	I	Connects to sled phase compensation constant.
29	SLD	O	Output for sled control signal.
30	SL–	I	Input for sled-sending signal from microcontroller.
31	SL+	I	Input for sled-sending signal.
32	JP–	I	Input for tracking-jump signal from DSP.
33	JP+		
34	TGL	I	Input for tracking gain control signal from DSP; gain is low if TGL = "H".
35	TOFF	I	Input for tracking off control signal from DSP; off if TOFF = "H".
36	TES	O	Outputs TES signal to DSP.
37	HFL	O	HIGH FREQUENCY LEVEL; used to determine whether the main beam is on a pit or on a mirror.
38	SLOF	I	Input for sled servo off control.
39, 40	CV–, CV+	I	Input for CLV error signal from DSP.

Pin No.	Pin Name	I/O	Description
41	RFSM	O	Output for RF.
42	RFS–	O	For setting RF gain and 3T compensation constant together with RFSM.
43	SLC	O	SLICE LEVEL CONTROL; output for controlling the data slice level of DSP with RF waveform.
44	SLI	I	Input for controlling the data slice level of DSP.
45	D-GND	–	GND for digital system.
46	FSC	O	Output pin for focus search smoothing capacitor.
47	TBC	I	(Tracking Balance Control) EF balance variable range setting pin.
48	NC	–	Not connected.
49	DEF	O	Output for disk defect detection.
50	CLK	I	Standard clock input; DSP's 4.23MHz is inputted.
51	CL	I	Clock input for microcontroller command.
52	DAT	I	Data input for microcontroller command.
53	CE	I	Chip-enable input for microcontroller command.
54	DRF	O	Detect RF; output for RF level detection.
55	FSS	I	(Focus Search Mode) = search/+search against reference voltage switching pin. (Not used)
56	VCC2	–	VCC pin for servo and digital systems.
57	REFI	I	For connecting pass capacitor to reference voltage.
58	VR	O	Reference voltage output.
59	LF2	–	For setting disk defect-detection time constant.
60	PHI	–	Connects to capacitor for RF signal peak hold.
61	BHI	–	Connects to capacitor for RF signal bottom hold.
62	LDD	O	Output for APC circuit.
63	LDS	I	Input for APC circuit.
64	VCC1	–	VCC pin for RF system.

IC, LC78622ED

Pin No.	Pin Name	I/O	Description
1	DEFI	I	Defect detection signal (DEF) input.
2	TAI	I	Test input. A pull-down resistor is built in. Must be connected to 0V.
3	PDO	O	External VCO control phase comparator output.
4	VVSS	–	Internal VCO ground. Must be connected to 0V.
5	ISET	I	PDO output current adjustment resistor connection.
6	VVDD	–	Internal VCO power supply.
7	FR	I	VCO frequency range adjustment.
8	VSS	–	Digital system ground. Must be connected to 0V.
9	EFMO	O	Slice level control; EFM signal output.
10	EFMIN	I	Slice level control; EFM signal input.
11	T2	I	Test input. A pull-down resistor is built in. Must be connected to 0V.
12	CLV+	O	Disc motor control output. Three-value ouput is also possible when specified by microprocessor command.
13	CLV–		
14	$V/\overline{P}$	O	Rough servo/phase control automatic switching monitor output. Outputs a high level during rough servo and a low level during phase control.
15	HFL	I	Track detection signal input. This is a Schmitt input.
16	TES	I	Tracking error signal input. This is a Schmitt input.
17	TOFF	O	Tracking off output.
18	TGL	O	Tracking gain switching output. Increase the gain when low.
19	JP+	O	Track jump output. Three-value output is also possible when specified by microprocessor command.
20	JP–		
21	PCK	O	EFM data playback clock monitor. Outputs 4.3218 MHz when the phase is locked. (Not used)
22	FSEQ	O	Synchronization signal detection ouput. Outputs a high level when the synchronization signal detected from the EFM signal and the internally generated synchronization signal agree. (Not used)
23	VDD	–	Digital system power supply.
24	SL+	O	Serial data command sled signal output terminal from microprocessor.
25	SL–		
26	NC	–	Not used.
27	PU IN	I	CD pickup inside limit switch.
28	CD R/W	O	Serial data command sled signal output terminal from microprocessor.
29	EMPH	O	De-emphasis monitor pin. A high level indicates playback of a de-emphasis disk. (Not used)
30	C2F	O	C2 flag output. (Not used)
31	DOUT	O	Digital output (EIAJ format).
32	T3	I	Test input. A pull-down resistor is built in. Must be connected to 0V.
33	T4		
34	NC	–	Unused. Must be left open.
35	MUTEL	O	Left channel one-bit D/A converter mute output. (Not used)
36	LVDD	–	Left channel one-bit D/A converter power supply.
37	LCHO	O	Left channel one-bit D/A converter output.

Pin No.	Pin Name	I/O	Description
38	LVSS	–	Left channel one-bit D/A converter ground. Must be connected to 0V.
39	RVSS	–	Right channel one-bit D/A converter ground. Must be connected to 0V.
40	RCHO	O	Right channel one-bit D/A converter output.
41	RVDD	–	Right channel one-bit D/A converter power supply.
42	MUTER	O	Right channel one-bit D/A converter mute ouput. (Not used)
43	XVDD	–	Crystal oscillator power supply.
44	XOUT	O	Connections for a 16.934MHz crystal oscillator element.
45	XIN	I	
46	XVSS	–	Crystal oscillator ground. Must be connected to 0V.
47	SBSY	O	Subcode block synchronization signal output. (Not used)
48	EFLG	O	C1, C2 single and double error correction monitor pin. (Not used)
49	PW	O	Subcode P, Q, R, S, T, U, V and W output. (Not used)
50	SFSY	O	Subcode frame synchronization signal output. This signal falls when the subcode are in the standby state. (Not used)
51	SBCK	I	Subcode readout clock input. This is a Schmitt input. (Must be connected to 0V when unused)
52	FSX	O	Output for the 7.35 kHz synchronization signal divided from the crystal oscillator. (Not used)
53	WRQ	O	Subcode Q output standby output.
54	RWC	I	Readwrite control input. This is a Schmitt input.
55	SQOUT	O	Subcode Q output.
56	COIN	I	Command input from the control microprocessor.
57	$\overline{\text{CQCK}}$	I	Input for both the command input acquisition clock and the SQOUT pin subcode readout clock input. This is a Schmitt input.
58	$\overline{\text{RES}}$	I	Chip reset pin. This pin must be set low briefly after power is first applied.
59	T11	O	Test output. Leave open. (Normally outputs a low level). (Not used)
60	16M	O	16.9344 MHz output. (Not used)
61	4.2M	O	4.2336 MHz output.
62	T5	I	Test input. A pull-down resistor is built in. Must be connected to 0V.
63	$\overline{\text{CS}}$	I	Chip select input. A pull-down resistor is built in. Must be connected to 0V if not controlled.
64	T1	I	Test input. No pull-down resistor. Must be connected to 0V.

ADJUSTMENT-1 <TUNER / CD>

< TUNER SECTION >

1. Clock Frequency Check
   Settings : • Test point : TP2 (CLK)
   Method : Set to MW 1602kHz and check that the test point is 2052kHz ± 45Hz.

2. MW VT Check
   Settings : • Test point : TP1 (VT)
   Method : Set to MW 1602kHz and check that the test point is less than 8.0V. Then set to MW 531kHz and check that the test point is more than 0.6V.

3. MW Tracking Adjustment
   Settings : • Test point : TP8 (Lch), TP9 (Rch)
   • Adjustment location : L981 (1/3)
   Method : Set to MW 999kHz and adjust L981 (1/3) so that the test point becomes maximum.

4. LW VT Adjustment
   Settings : • Test point : TP1 (VT)
   • Adjustment location : L942
   Method : Set to LW 144kHz and adjust L942 so that the test point becomes 1.3V ± 0.05V.
   Then set to LW 290kHz and check that the test point is less than 8.0V.

5. LW Tracking Adjustment
   Settings : • Test point : TP8 (Lch), TP9 (Rch)
   • Adjustment location :
   L941 ..... 144kHz
   TC942 ..... 290kHz
   Method : Set up TC942 to center before adjustment.
   The level at 144kHz is adjusted to maximum by L941.
   Then the level at 290kHz is adjusted to maximum by TC942.

6. AM IF Adjustment
   Settings : • Test point : TP8 (Lch), TP9 (Rch)
   • Adjustment location :
   L772 ..... 450kHz

7. FM VT Check
   Settings : • Test point : TP1 (VT)
   Method : Set to FM 108.0MHz and check that the test point is less than 8.0V. Then set to FM 87.5 MHz and check that the test point is more than 0.5V.

8. FM Tracking Check
   Settings : • Test point : TP8 (Lch), TP9 (Rch)
   Method : Set to FM 98.0MHz and check that the test point is less than 13dBµV.

9. DC Balance / Mono Distortion Adjustment
   Settings : • Test point : TP3,TP4 (DC balance)
   TP8 (Lch), TP9 (Rch) (Distortion)
   • Adjustment location : L771
   • Input level : 60dBµV
   Method : Set to FM 98.0MHz and adjust L771 so that the voltage between TP3 and TP4 becomes 0V ± 0.04V.
   Next, check that the distortion is less than 1.3%.

<CD SECTION>

10. Focus Bias Adjustment
    Settings : • Test disc : TCD-782
    • Test point : TP1(RF),TP5 (VREF)
    • Adjustment location : SFR130
    Method : Insert and playback test disc (TCD-782,Track No.1). Adjust SFR130 so that the output level at test point becomes 0mV ± 10mV.

ADJUSTMENT-2 <DECK / FRONT>

< DECK SECTION >

1. Tape Speed Adjustment
   Settings : • Test tape : TTA–100
   • Test point : TP1 (Rch), TP2 (Lch)
   • Adjustment location : SFR1
   Method : Play back (FWD) the test tape and adjust SFR1 so that the frequency counter reads 3000Hz ± 5Hz and ± 45Hz (REV) with respect to forward speed.

2. Head Azimuth Adjustment
   Settings : • Test tape : TTA–330
   • Test point : TP1 (Rch), TP2 (Lch)
   • Adjustment location : Head azimuth adjustment screw
   Method : Play back (FWD) the 10kHz signal of the test tape and adjust screw so that the output becomes maximum. Next, perform on REV play mode.

3. PB Frequency Response Check
   Settings : • Test tape : TTA–300
   • Test point :TP1 (Rch), TP2 (Lch)
   Method : Play back the 315Hz and 10kHz signals of the test tape and check that the output ratio of the 10kHz signal with respect to that of the 315Hz signal is 0dB ± 3dB.

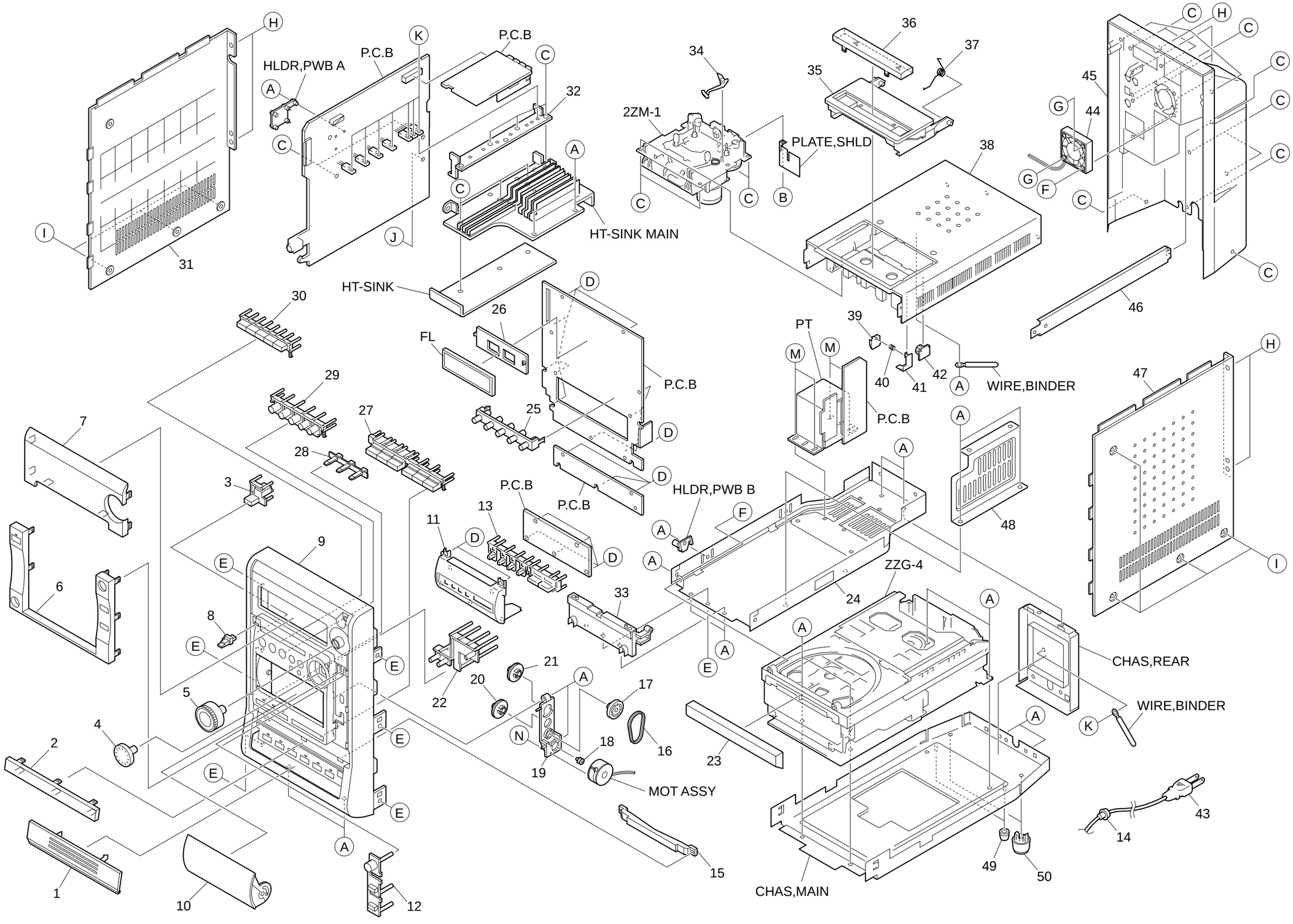
4. PB Sensitivity Adjustment
   Settings : • Test tape : TTA–200
   • Test point : TP1 (Rch), TP2 (Lch)
   • Adjustment location : SFR303 (Lch)
   SFR304 (Rch)
   Method : Play back the test tape and adjust SFRs so that the output level of the test point is 245mV±30mV.

5. REC/PB Sensitivity Adjustment
   Settings : • Test tape : TTA–602
   • Test point : TP1 (Rch), TP2 (Lch)
   • Input signal : 1kHz (0VU)
   • Adjustment location : SFR305 (Lch)
   SFR306 (Rch)
   Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at TP1, TP2 becomes 170mV. Record and play back the 1kHz signals and adjust SFRs so that the output becomes 0dB ± 0.5dB.

< FRONT SECTION >

6. µ-CON OSC Adjustment
   Settings : • Test point : TP1(K-SCAN) and TP2(GND)
   • Adjustment location : L201
   Method : Insert AC plug with pressing of DISPLAY key. Adjust L201 so that the frequency across the test point is 194.898Hz ± 0.194Hz (5.126 msec ~ 5.136 msec).

MECHANICAL EXPLODED VIEW 1 / 1



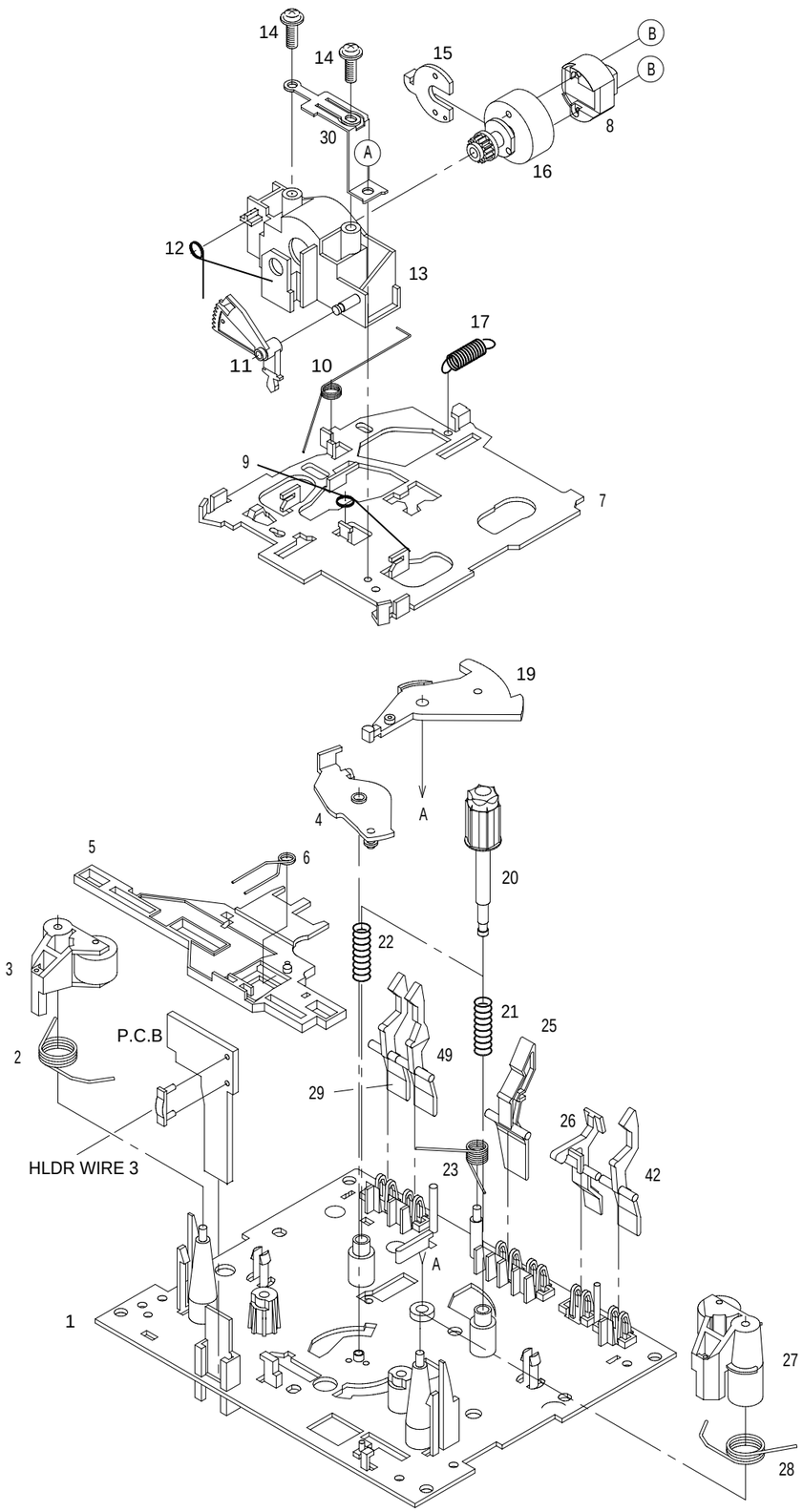
MECHANICAL PARTS LIST 1 / 1

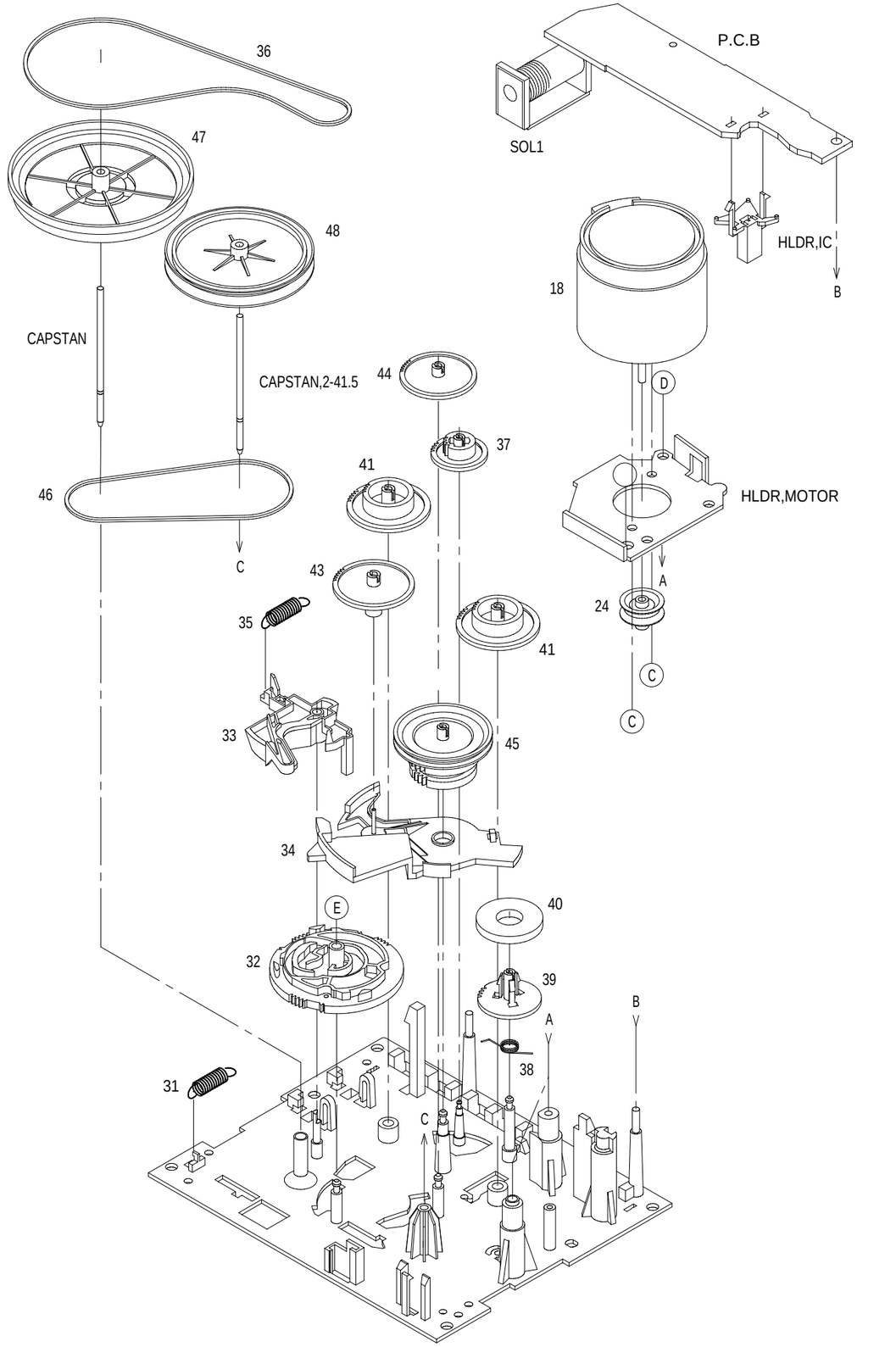
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8A-CL3-008-010		PANEL,A
2	8A-CJ3-010-010		WINDOW,CD
3	8A-CL3-009-010		KEY,POWER L3
4	8A-CJ3-022-010		KNOB,RTRY JOG
5	8A-CJ3-038-010		KNOB ASSY,RTRY MAIN
6	8A-CL3-004-010		PANEL,FR L3
7	8A-CJ3-011-010		WINDOW,DISPLAY
8	8A-CJ3-035-010		REFLECTOR,POWER
9	8A-CL3-001-010		CABI,FR L3 EX
10	8A-CL3-006-010		DOOR,EQ
11	8A-CL3-007-010		PANEL,EQ
12	8A-CJ3-042-010		KEY,MD EJECT (W/O RDS)
13	8A-CL3-014-010		KEY,EQ
14	87-085-185-010		BUSHING, AC CORD (E)
15	8A-CJ3-037-010		REFLECTOR,CD
16	8A-CJ3-223-010		BELT,SQ1.2-24
17	8A-CJ3-208-010		GEAR,C
18	84-ZG2-228-010		PULLEY,MOT
19	8A-CJ3-209-010		HLDR,GEAR
20	8A-CJ3-207-010		GEAR,B
21	8A-CJ3-206-010		GEAR,A
22	8A-CL3-010-010		KEY,MODE L3
23	8A-CJ3-007-010		PANEL,TRAY
24	8A-CJ3-201-010		CHAS,MD
25	8A-CJ3-204-010		GUIDE,LED PLAY
26	8A-CJ3-203-010		GUIDE,FL
27	8A-CJ3-016-010		KEY CD DIR
28	8A-CJ3-034-010		REFLECTOR CD DIR
29	8A-CJ3-040-010		KEY ASSY,CONTROL
30	8A-CL3-011-010		KEY,FUN L3
31	8A-CJ3-005-010		PANEL,SIDE L
32	8A-CJ4-202-010		HLDR,TR EX
33	8A-CJ3-212-010		HLDR,MD FR
34	82-ZM1-263-110		LVR,EJECT L
35	8A-CJ3-008-010		BOX,CASS
36	8A-CJ3-009-010		WINDOW,CASS
37	82-NF5-218-010		SPR-T,EJECT 1 (SIN)
38	8A-CJ3-004-010		PANEL,TOP
39	82-NF5-229-010		PLATE,LOCK
40	86-NF9-224-010		SPR-C,LOCK
41	87-NF4-216-010		HLDR,LOCK 1
42	87-NF8-220-010		DMPR,150
⚠ 43	87-A80-143-010		AC CORD ASSY,E BLK
44	8Z-CL1-663-010		FAN,MF40D-12-200MM
45	8A-CL3-003-010		CABI,REAR L3 EZ/K
46	8A-CJ4-211-010		JOINT,CABI
47	8A-CJ3-006-010		PANEL,SIDE R
48	8A-CJ3-211-010		HLDR,HT-SINK
49	8Z-NB8-254-010		COVER PL M3
50	81-669-025-010		FOOT, H11
A	87-067-579-010		TAPPING SCREW, BVT2+3-8
B	87-067-421-010		VTT+2-4
C	87-067-703-010		TAPPING SCREW, BVT2+3-10
D	87-078-060-010		BVIT3PB+3-10
E	87-721-095-410		QT2+3-8GLD W/O SLOT
F	87-067-581-010		TAPPING SCREW, BVT2+3-15
G	87-751-096-410		VT2+3-10 GLD
H	87-067-761-010		TAPPING SCREW, BVT2+3-10
I	87-067-660-010		TAPPING SCREW, BVT2+3-8
J	87-NF4-224-010		S-SCREW,IT3B+3-8 CU
K	87-067-586-010		TAPPING SCREW, BVT2+4-8
L	87-267-527-310		SCREW, V+1.7-3
M	87-067-584-010		BVT2+3-6 W/O SLOT

COLOR NAME TABLE

Basic color symbol	Color	Basic color symbol	Color	Basic color symbol	Color
B	Black	C	Cream	D	Orange
G	Green	H	Gray	L	Blue
LT	Transparent Blue	N	Gold	P	Pink
R	Red	S	Silver	ST	Titan Silver
T	Brown	V	Violet	W	White
WT	Transparent White	Y	Yellow	YT	Transparent Yellow
LM	Metallic Blue	LL	Light Blue	GT	Transparent Green
LD	Dark Blue	DT	Transparent Orange	GM	Metallic Green
YM	Metallic Yellow	DM	Metallic Orange	PT	Transparent Pink

TAPE MECHANISM EXPLODED VIEW 1 / 1



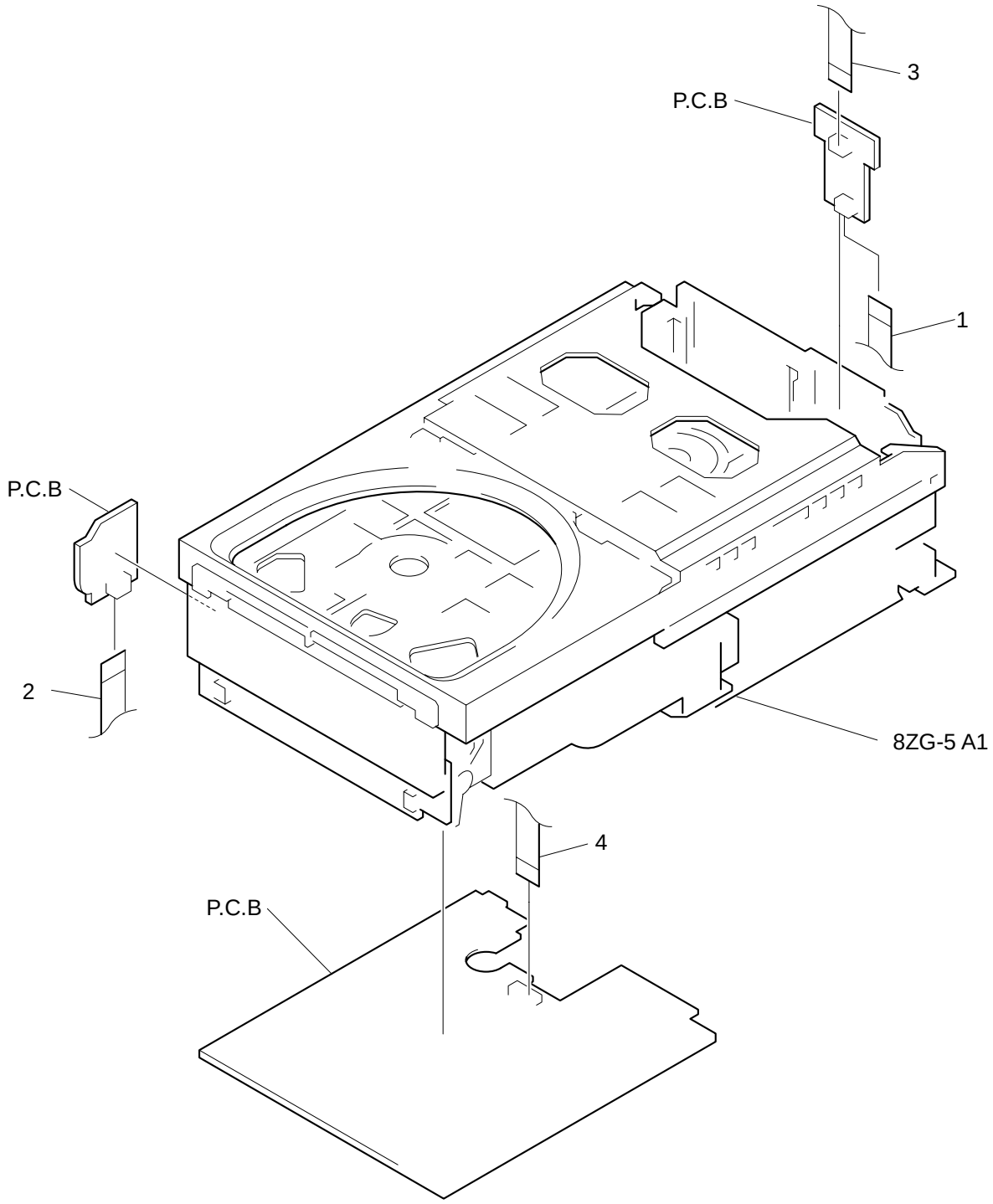


TAPE MECHANISM PARTS LIST 1 / 1

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	82-ZM1-327-310	1D	CHAS ASSY,RM
2	82-ZM1-258-210	0E	SPR-T,PINCH L
3	82-ZM1-341-210	1A	LVR ASSY,PINCH L2
4	82-ZM1-333-210	0E	PLATE,LINK2
5	82-ZM1-266-310	0E	LVR,DIR
6	82-ZM1-214-010	0E	SPR-T,DIR
7	82-ZM1-206-910	1A	CHAS,HEAD
8	87-A91-176-010	1F	HEAD,RPH HADKH56
9	82-ZM1-269-210	0E	SPR-T,BRG
10	82-ZM1-219-110	0E	SPR-T,LINK
11	82-ZM1-210-110	0E	GEAR,H T
12	82-ZM1-213-010	0E	SPR-T,HEAD
13	82-ZM1-207-910	1A	GUIDE,TAPE
14	82-ZM1-283-310	0E	S-SCREW,AZIMUTH
15	82-ZM1-314-110	0E	PLATE,HEAD
16	82-ZM1-208-310	0E	HLDR,HEAD
17	82-ZM1-218-010	0E	SPR-E,HB
18	87-045-347-010	1H	MOT,SHU2L 70
19	82-ZM1-222-210	0E	LVR,PLAY
20	82-ZM1-217-410	0E	REEL TABLE
21	82-ZM1-244-510	0E	SPR-C,BT
22	82-ZM1-285-410	0E	SPR-C,BT L
23	82-ZM1-257-010	0E	SPR-T,CAS
24	82-ZM1-247-210	0E	PULLEY,MOTOR
25	82-ZM1-242-010	0E	LVR,CAS
26	82-ZM1-243-010	0E	LVR,STOP
27	82-ZM1-344-210	0E	LVR ASSY,PINCH R2
28	82-ZM1-259-210	0E	SPR-T,PINCH R
29	82-ZM1-240-110	0E	LVR,REC(*)
30	82-ZM1-298-010	0E	SPR-P EARTH

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
31	82-ZM1-255-310	0E	SPR-E,LVR DIR
32	82-ZM1-221-310	0E	GEAR,CAM(*)
33	82-ZM1-227-310	0E	LVR,TRIG
34	82-ZM1-224-410	0E	LVR,FR
35	82-ZM1-305-210	0E	SPR-E,TRIG 2
36	82-ZM1-340-010	0E	BELT,SBU MAIN2
37	82-ZM1-223-010	0E	GEAR,PLAY
38	82-ZM1-322-010	0E	SPR-T,FR 60
39	82-ZM1-220-210	0E	GEAR,IDLER
40	82-ZM3-616-010	0E	RING MAGNET 4
41	82-ZM1-216-510	0E	GEAR,REEL
42	82-ZM1-241-310	0E	LVR,MC
43	82-ZM1-225-210	0E	GEAR,FR
44	82-ZM1-226-010	0E	GEAR,REW
45	82-ZM3-333-310	1A	SLIP DISK ASSY 2
46	82-ZM1-338-110	0E	BELT,FR 4
47	82-ZM1-349-110	1A	FLY-WHL,R W
48	82-ZM1-348-110	0E	FLY-WHL,L W
A	82-ZM1-315-010	0E	S-SCREW GUIDE TAPE
B	80-ZM6-207-010	0E	V+1.6-7
C	87-251-070-410	0E	U+2.6-3
D	87-741-073-410	0E	UT2+2.6-6 GLD
E	87-B10-008-010	0E	W-P,2.08-8-0.4-SLIP
F	82-ZM1-247-210	0E	PULLEY,MOTOR

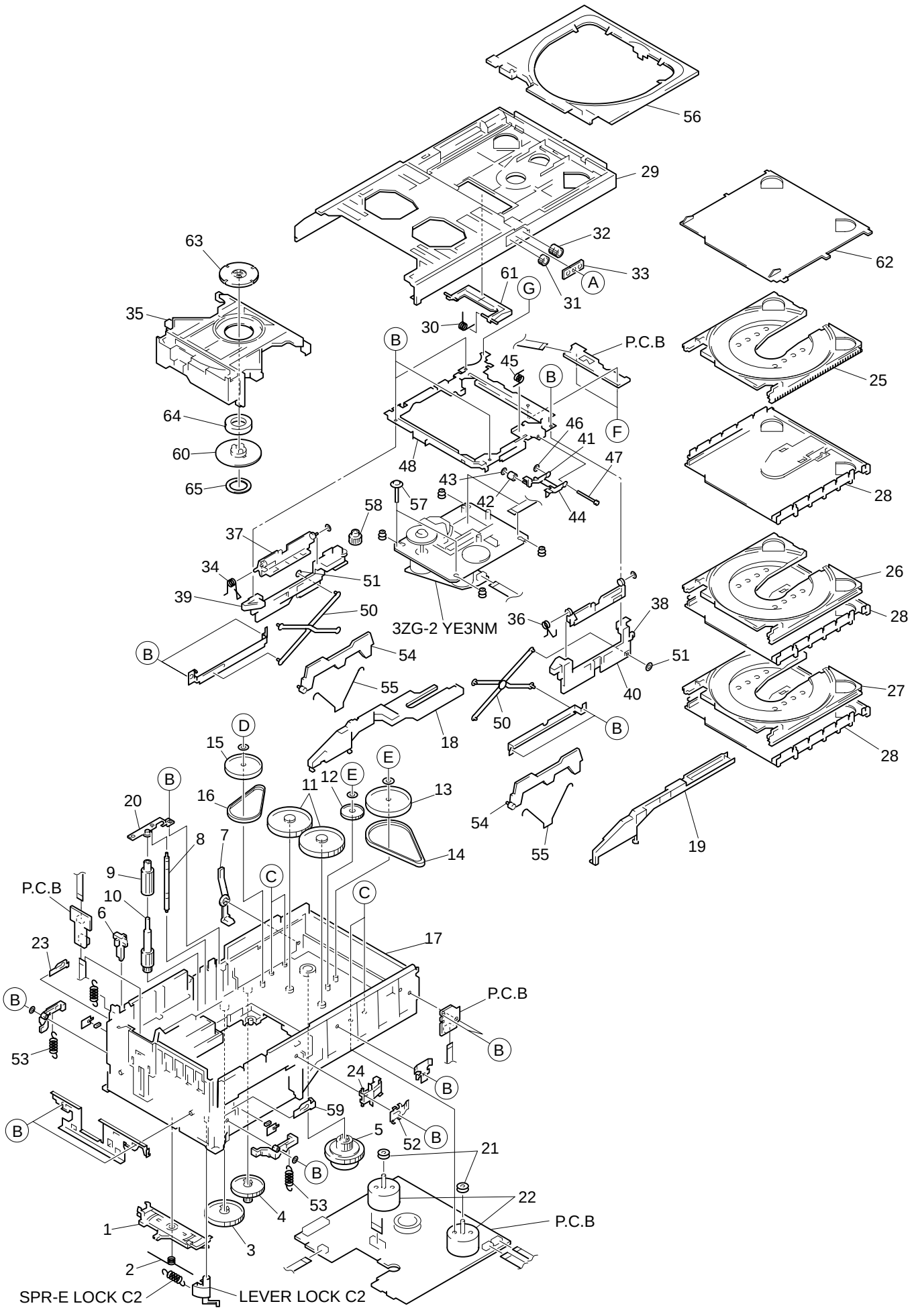
CD MECHANISM EXPLODED VIEW 1 / 3 <ZZG–4 B>



CD MECHANISM PARTS LIST 1 / 3 <ZZG–4 B>

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	88-906-191-110	0E	FF-CABLE,6P 1.25
2	84-ZG2-612-110	1A	CABLE,FFC 4P L=130
3	8Z-ZG4-613-010	0E	FF-CABLE, 4P 1.0 210MM
4	8Z-ZG4-610-010	0E	FF-CABLE, 16P 1.0 70MM PIC

CD MECHANISM EXPLODED VIEW 2 / 3 <8ZG–5 A1>

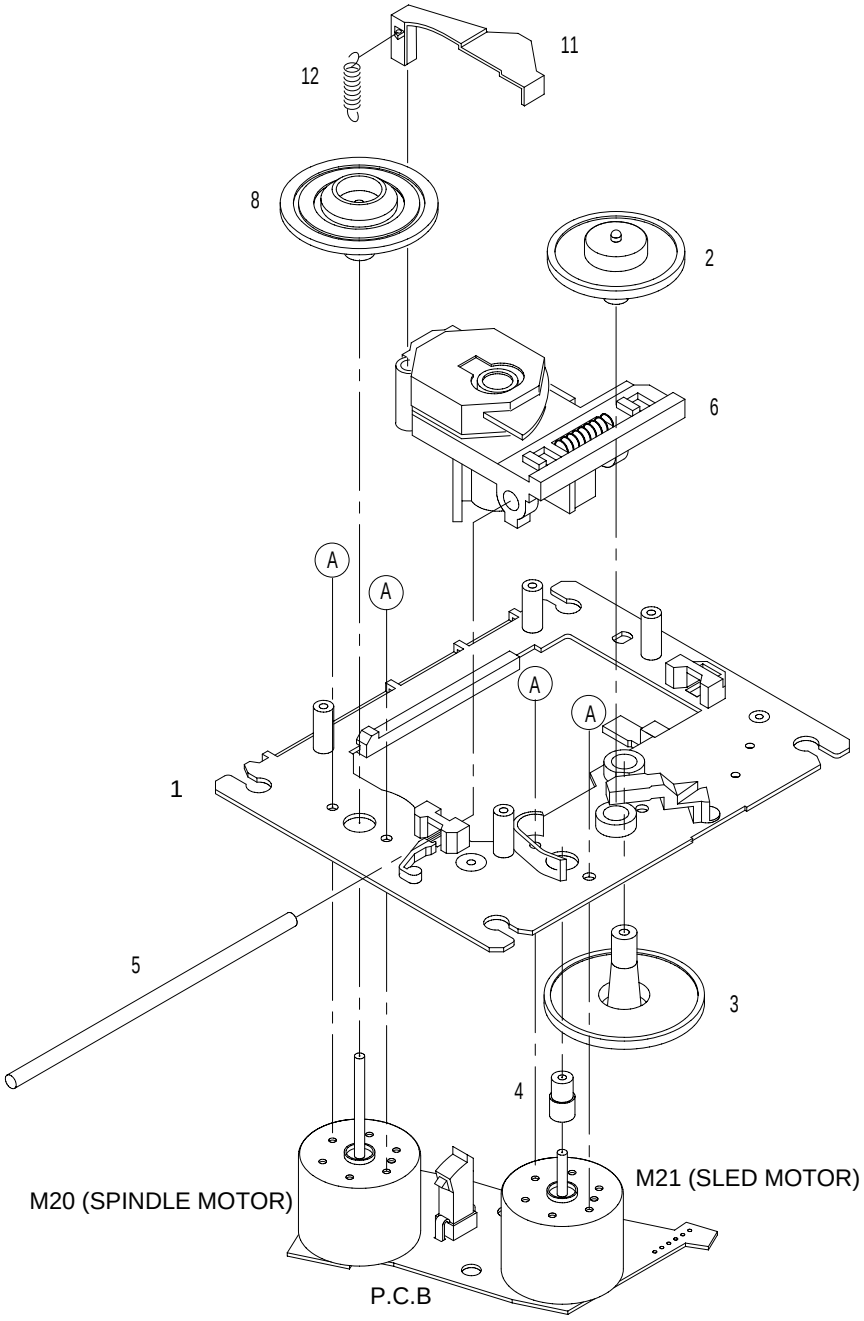


CD MECHANISM PARTS LIST 2 / 3 <8ZG–5 A1>

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	88-ZG5-241-010	0E	LEVER,LOCK C
2	88-ZG5-242-010	0E	SPR-T,LOCK C
3	88-ZG5-206-010	0E	GEAR,BASE A
4	88-ZG5-207-010	0E	GEAR,BASE B
5	88-ZG5-211-010	0E	GEAR,SLIDER B
6	88-ZG5-224-010	0E	LEVER,LOCK F
7	88-ZG5-250-010	0E	LEVER,SW F
8	88-ZG5-247-010	1A	SHAFT,ELEVATOR
9	88-ZG5-254-010	0E	GEAR,TRAY A
10	88-ZG5-255-010	0E	GEAR,TRAY B
11	88-ZG5-210-010	0E	GEAR,SLIDER A
12	88-ZG5-212-010	0E	GEAR,SLIDER C
13	88-ZG5-213-010	0E	PULLEY,SLIDER
14	88-ZG5-281-010	0E	BELT,SLIDER
15	88-ZG5-209-010	0E	PULLEY,BASE
16	88-ZG5-282-010	0E	BELT,BASE
17	88-ZG5-202-010	1F	BASE
18	88-ZG5-237-010	1A	LEVER,SLIDE R
19	88-ZG5-236-010	1A	LEVER,SLIDE L
20	88-ZG5-246-010	0E	HLDR,SHAFT
21	82-ZM1-247-210	0E	PULLEY,MOTOR
22	87-045-305-010	1F	MOTOR,RF-500TB DC-5V(2MA)
23	88-ZG5-258-010	0E	SPR-P,CATCHER L
24	88-ZG5-263-010	0E	LEVER,TRAY
25	88-ZG5-243-010	1B	TRAY,1
26	88-ZG5-244-010	1B	TRAY,2
27	88-ZG5-245-010	1B	TRAY,3
28	88-ZG5-204-010	1B	MAGAZINE,
29	88-ZG5-221-010	1E	FRAME,MAIN
30	88-ZG5-265-010	0E	SPR-T,LVR LIFT
31	88-ZG5-218-010	0E	GEAR,FRAME A
32	88-ZG5-219-010	0E	GEAR,FRAME B
33	88-ZG5-223-010	0E	FRAME,SIDE
34	88-ZG5-257-010	0E	SPR-T,CATCHER R
35	88-ZG5-226-010	1B	HLDR,CLAMP
36	88-ZG5-251-010	0E	SPR-T,CATCHER L
37	88-ZG5-227-010	0E	LEVER,CATCHER R
38	88-ZG5-228-010	0E	LEVER,CATCHER L
39	88-ZG5-253-010	1A	HLDR,ELEVATOR R
40	88-ZG5-252-010	1A	HLDR,ELEVATOR L

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
41	88-ZG5-279-010	1B	LEVER ASSY,ROLLER L
42	88-ZG5-287-010	0E	ROLLER ASSY,
43	87-B10-220-010	0E	W-P,0.94-5-0.25 SLIT
44	88-ZG5-280-010	1B	LEVER ASSY,ROLLER R
45	88-ZG5-270-010	0E	SPR-T,LVR ROLLER
46	87-B10-221-010	0E	W-P,0.85-3-0.25 SLIT
47	88-ZG5-262-010	0E	SHAFT,ROLLER 2
48	88-ZG5-238-010	1B	PLATE,ELEVATOR
49	88-ZG5-231-010	1B	LEVER ASSY,LINK R
50	88-ZG5-229-010	1B	LEVER ASSY,LINK L
51	87-B10-219-010	0E	W-P,2.15-3.5-0.25 SLIT
52	88-ZG5-266-010	0E	SPR-T,LVR TRAY
53	88-ZG5-225-010	0E	SPR-E,LOCK F
54	88-ZG5-239-010	0E	PLATE,LIFT
55	88-ZG5-240-010	0E	SPR-T,LIFT
56	88-ZG5-222-010	1E	FRAME,TOP
57	81-ZG1-254-010	0E	S-SCREW,MECH HLDR
58	88-ZG5-217-010	0E	GEAR,ELEVATOR
59	88-ZG5-259-010	0E	SPR-P,CATCHER R
60	84-ZG1-243-110	1A	HLDR,MAGNET N(J)
61	88-ZG5-264-010	0E	LEVER,LIFT
62	88-ZG5-203-010	1B	MAGAZINE,TOP
63	83-ZG3-211-010	0E	PLATE,DISC
64	83-ZG3-602-010	1A	RING,MAG
65	86-ZG1-239-110	0E	PLATE,DISC PC
A	88-ZG5-300-010	0E	VFT2+2-12 W/O
B	88-ZG5-302-010	0E	S-SCREW,8ZG5+2-4 W/O
C	87-251-071-110	0E	SCREW, U+2.6-4
D	88-ZG5-301-010	0E	VFT2+2-20 W/O
E	88-ZG5-300-010	0E	VFT2+2-16
F	87-B10-271-010	0E	VIT+1.7-3
G	88-ZG5-317-010	0E	S-SCREW,8ZG5S +2-4 W/O

CD MECHANISM EXPLODED VIEW 3 / 3 <3ZG–2 YE3NM>



CD MECHANISM PARTS LIST 3 / 3 <3ZG–2 YE3NM>

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	83-ZG2-243-210	--	CHAS ASSY,SHT
2	83-ZG2-235-010	--	GEAR,A3
3	83-ZG2-205-210	0E	GEAR,B
4	83-ZG2-236-010	--	GEAR MOTOR 3
5	83-ZG2-253-010	--	SHAFT,SLIDE 5
6	87-A90-836-010	--	PICKUP,KSS-213F
8	83-ZG2-227-210	--	TURN TABLE,C1
11	83-ZG2-245-410	--	LEVER,SHUTTER
12	83-ZG2-250-110	--	SPR-E,SHT 2
A	87-261-032-210	0E	SCREW V+2-3

アイワ株式会社 〒110-8710 東京都台東区池之端1-2-11 ☎03(3827)3111 (代表)
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